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# COMMERCIAL FERTILIZERS

## CONSUMPTION FOR YEAR ENDED

### JUNE 30, 1979



Crop  
Reporting  
Board

Economics, Statistics, &  
Cooperatives Service

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For Information Call: (202) 447-7687

### TOTAL FERTILIZER CONSUMPTION UP 7 PERCENT

Fertilizer consumption in the U.S. and Puerto Rico during the year ended June 30, is placed at 51.0 million tons, up 7 percent from the 47.5 million tons consumed in the 1977-78 year.

Primary nutrient content (nitrogen, N; phosphate, P<sub>2</sub>O<sub>5</sub>; and potash, K<sub>2</sub>O) was 22.4 million tons, up 9 percent from a year earlier. Nitrogen consumption increased 7 percent to 10.6 million tons; phosphate usage increased 9 percent to 5.5 million tons; potash at 6.2 million tons was up 12 percent.

The five leading States in order of total consumption and the change in consumption from last year were: Illinois, up 17 percent; Iowa, up 20 percent; California, up 16 percent; Indiana, up 3 percent and Texas, up 8 percent.

Fertilizer consumption represents all commercial fertilizer tonnage sold or used for farm and non-farm use as fertilizer. Materials used in the manufacture of registered mixes or for use in other fertilizers are excluded.

### DIRECT APPLICATION MATERIALS INCREASED 8 PERCENT

Usage of all direct application materials increased 8 percent during the 1978-79 fertilizer year to 27.4 million tons. Primary nutrient material (N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O) accounted for 25.3 million tons compared with 23.5 million tons a year earlier. Secondary and micronutrient materials increased from 1.9 million tons in 1978 to 2.1 million tons in 1979.

### MICRONUTRIENTS SOLD FOR FERTILIZER

Sales of selected micronutrient elements for use in fertilizer were obtained from known primary producers. These tonnages shown in table 19 indicate increased usage for zinc and decreases for iron, copper, molybdenum, and manganese.

#### DATA SOURCES AND RELEASE DATES

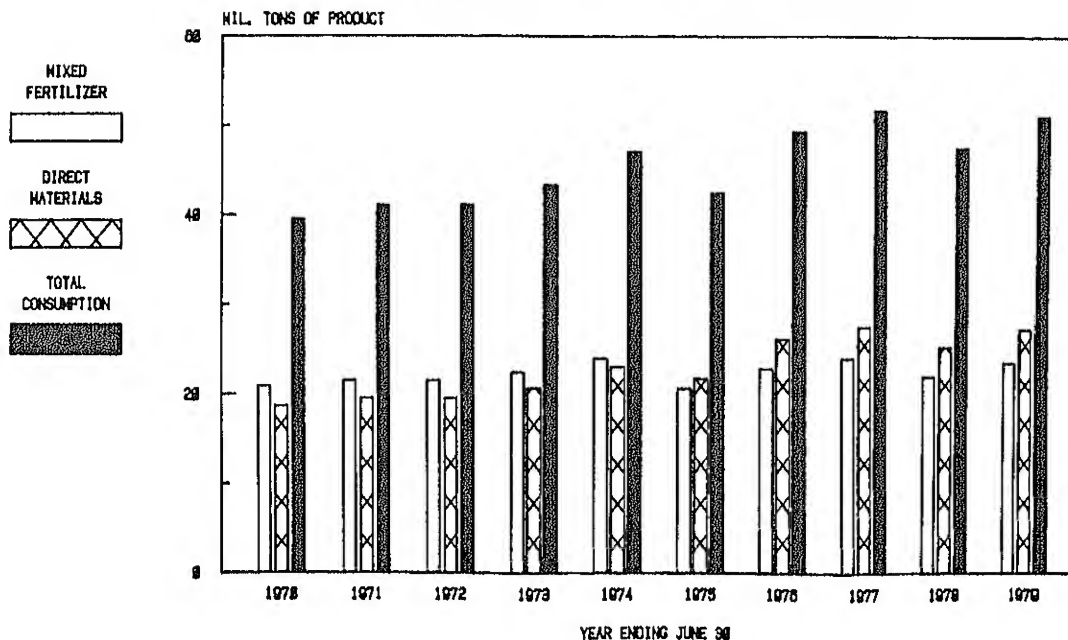
This report, compiled by the Crop Reporting Board of the Economics, Statistics, and Cooperatives Service, is based on fertilizer tonnage reports prepared by State Fertilizer Control Officials and the voluntary response of more than 1,500 fertilizer manufacturers, blenders and sales outlets.

Current year consumption data will be subject to revision one year from now. The Consumption by Class Report will be released by the Crop Reporting Board on December 3, 1979 at 3 p.m.

TABLE 1.--UNITED STATES CONSUMPTION OF FERTILIZERS AND PLANT NUTRIENTS  
1960-1979

| YEAR<br>ENDED<br>JUNE<br>30 | TOTAL CONSUMPTION        |                                 |                                    |        |                          |  |                  |          |
|-----------------------------|--------------------------|---------------------------------|------------------------------------|--------|--------------------------|--|------------------|----------|
|                             | GROSS TONNAGES           |                                 |                                    |        | PRIMARY NUTRIENT CONTENT |  |                  |          |
|                             | MIXED<br>FERTI-<br>LIZER | PRIMARY<br>NUTRIENT<br>MATERIAL | SECONDARY<br>& MICRO-<br>NUTRIENTS | TOTAL  | N                        | AVAILABLE<br>P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | TOTAL    |
|                             | 1,000 TONS               |                                 |                                    |        |                          |  |                  |          |
| 1960                        | 15,650                   | 7,850                           | 1,378                              | 24,877 | 2,738.0                  | 2,572.4                                    | 2,153.3          | 7,463.7  |
| 1961                        | 15,735                   | 8,639                           | 1,194                              | 25,567 | 3,030.8                  | 2,645.1                                    | 2,168.5          | 7,844.4  |
| 1962                        | 16,205                   | 9,100                           | 1,310                              | 26,615 | 3,370.0                  | 2,807.0                                    | 2,270.5          | 8,447.5  |
| 1963                        | 17,157                   | 10,229                          | 1,459                              | 28,844 | 3,929.1                  | 3,072.9                                    | 2,503.4          | 9,505.4  |
| 1964                        | 18,093                   | 11,113                          | 1,475                              | 30,681 | 4,352.8                  | 3,377.8                                    | 2,729.7          | 10,460.3 |
| 1965                        | 18,559                   | 11,756                          | 1,521                              | 31,836 | 4,638.5                  | 3,512.2                                    | 2,834.5          | 10,985.2 |
| 1966                        | 19,659                   | 13,412                          | 1,461                              | 34,532 | 5,326.3                  | 3,897.1                                    | 3,221.2          | 12,444.6 |
| 1967                        | 21,132                   | 14,552                          | 1,397                              | 37,081 | 6,027.1                  | 4,304.7                                    | 3,641.8          | 13,973.6 |
| 1968                        | 21,294                   | 15,832                          | 1,617                              | 38,743 | 6,787.6                  | 4,453.3                                    | 3,792.6          | 15,033.5 |
| 1969                        | 21,234                   | 16,380                          | 1,334                              | 38,949 | 6,957.6                  | 4,665.6                                    | 3,891.6          | 15,514.8 |
| 1970                        | 20,961                   | 17,331                          | 1,297                              | 39,589 | 7,459.0                  | 4,573.8                                    | 4,035.5          | 16,068.3 |
| 1971                        | 21,513                   | 18,389                          | 1,216                              | 41,118 | 8,133.6                  | 4,803.4                                    | 4,231.4          | 17,168.4 |
| 1972                        | 21,511                   | 18,385                          | 1,310                              | 41,206 | 8,022.3                  | 4,863.7                                    | 4,326.8          | 17,212.8 |
| 1973                        | 22,547                   | 19,275                          | 1,466                              | 43,288 | 8,295.1                  | 5,085.2                                    | 4,648.7          | 18,029.0 |
| 1974                        | 24,067                   | 20,897                          | 2,130                              | 47,094 | 9,157.2                  | 5,098.6                                    | 5,082.6          | 19,338.4 |
| 1975                        | 20,647                   | 19,959                          | 1,878                              | 42,484 | 8,600.8                  | 4,506.8                                    | 4,453.2          | 17,560.9 |
| 1976                        | 22,958                   | 23,935                          | 2,296                              | 49,189 | 10,411.6                 | 5,227.6                                    | 5,209.7          | 20,848.8 |
| 1977                        | 24,099                   | 24,999                          | 2,525                              | 51,624 | 10,647.4                 | 5,629.7                                    | 5,833.8          | 22,110.9 |
| 1978                        | 22,110                   | 23,511                          | 1,877                              | 47,497 | 9,964.6                  | 5,096.1                                    | 5,526.1          | 20,586.9 |
| 1979                        | 23,639                   | 25,313                          | 2,080                              | 51,031 | 10,643.0                 | 5,543.7                                    | 6,216.1          | 22,402.8 |

# CONSUMPTION OF MIXED FERTILIZERS AND DIRECT APPLICATION MATERIALS



# PLANT NUTRIENT CONSUMPTION

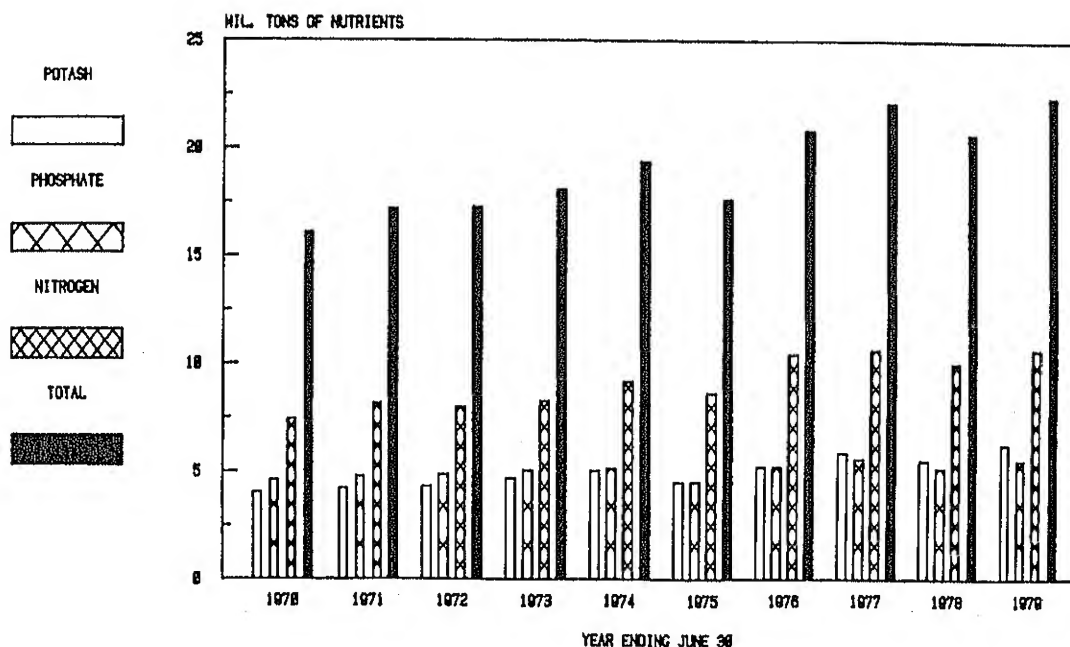


TABLE 2 -- TOTAL FERTILIZER CONSUMED, UNITED STATES AND REGIONS,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/ 2/

| KIND   | UNITED STATES     |                   | 1979           |                    |                   |                       |
|--|-------------------|-------------------|----------------|--------------------|-------------------|-----------------------|
|  | 1978              | 1979              | NEW<br>ENGLAND | MIDDLE<br>ATLANTIC | SOUTH<br>ATLANTIC | EAST NORTH<br>CENTRAL |
| <b>IONS</b>                                  |                   |                   |                |                    |                   |                       |
| <b>MIXTURES</b>                              |                   |                   |                |                    |                   |                       |
| N-P-K  | 15,518,686        | 16,224,634        | 257,859        | 1,271,965          | 4,758,347         | 3,268,429             |
| N-P  | 4,700,694         | 5,262,247         | 6,299          | 58,857             | 43,955            | 1,400,245             |
| N-K  | 482,514           | 516,377           | 2,559          | 5,944              | 372,772           | 34,269                |
| P-K  | 1,408,042         | 1,635,598         | 4,787          | 79,241             | 464,392           | 449,796               |
| TOTAL  | 22,109,936        | 23,638,856        | 271,504        | 1,416,007          | 5,639,466         | 5,152,739             |
| <b>NITROGEN MATERIALS</b>                    |                   |                   |                |                    |                   |                       |
| ANHYDROUS AMMONIA                            | 4,539,179         | 4,882,738         | 4              | 26,600             | 59,713            | 1,157,536             |
| AQUA AMMONIA                                 | 500,283           | 488,397           | 0              | 45                 | 297               | 8,532                 |
| AMMONIUM NITRATE                             | 2,487,714         | 2,511,261         | 2,679          | 34,820             | 312,148           | 118,319               |
| AMMONIUM NITRATE-LIMESTONE                   | 13,752            | 10,377            | 0              | 83                 | 1,121             | 9                     |
| AMMONIUM SULFATE                             | 845,068           | 754,634           | 213            | 10,914             | 15,110            | 45,160                |
| CALCIUM CYANAMIDE                            | 2,222             | 1,395             | 0              | 0                  | 11                | 1,384                 |
| CALCIUM NITRATE                              | 27,226            | 65,708            | 308            | 2,419              | 15,544            | 7,816                 |
| NITROGEN SOLUTIONS                           | 5,510,895         | 5,998,830         | 2,022          | 192,368            | 1,118,978         | 1,651,946             |
| SODIUM NITRATE                               | 60,698            | 83,946            | 121            | 17,557             | 51,194            | 934                   |
| UREA   | 1,934,092         | 2,118,070         | 13,912         | 75,898             | 14,026            | 463,116               |
| OTHER  | 445,687           | 432,701           | 3,310          | 52,231             | 24,917            | 126,341               |
| TOTAL  | 16,366,816        | 17,348,057        | 22,569         | 412,935            | 1,613,059         | 3,581,093             |
| <b>NATURAL ORGANIC MATERIALS</b>             |                   |                   |                |                    |                   |                       |
| DRIED BLOOD                                  | 438               | 490               | 17             | 33                 | 19                | 106                   |
| CASTER POMACE                                | 234               | 215               | 205            | 0                  | 10                | 0                     |
| COMPOST                                      | 35,429            | 15,544            | 6,108          | 2,521              | 1,191             | 4,291                 |
| COTTONSEED MEAL                              | 6,905             | 6,074             | 76             | 30                 | 128               | 15                    |
| DRIED MANURE                                 | 206,782           | 190,631           | 6,532          | 20,325             | 27,323            | 9,889                 |
| ACTIVATED SEWAGE SLUDGE                      | 64,811            | 61,479            | 3,369          | 10,620             | 16,921            | 17,206                |
| OTHER SEWAGE SLUDGE                          | 58,024            | 43,442            | 1,004          | 27                 | 458               | 2,892                 |
| TANKAGE                                      | 16,365            | 1,091             | 3              | 72                 | 552               | 124                   |
| OTHER  | 14,765            | 20,659            | 23             | 4,028              | 268               | 7,207                 |
| TOTAL  | 403,753           | 339,625           | 17,337         | 37,656             | 46,470            | 41,730                |
| <b>PHOSPHATE MATERIALS</b>                   |                   |                   |                |                    |                   |                       |
| AMMONIUM PHOSPHATE 3/                        | 657,742           | 576,774           | 2,612          | 13,992             | 36,567            | 711                   |
| BASIC SLAG                                   | 89,575            | 84,901            | 0              | 0                  | 33,177            | 0                     |
| RAW AND STEAMED BONE MEAL                    | 1,451             | 2,838             | 338            | 418                | 1,509             | 292                   |
| PHOSPHORIC SOLUTIONS                         | 25,429            | 53,840            | 0              | 23,893             | 45                | 327                   |
| PHOSPHATE ROCK                               | 20,320            | 12,203            | 47             | 759                | 1,436             | 1,451                 |
| CELLULOIDAL PHOSPHATE                        | 4,993             | 5,239             | 0              | 1,291              | 146               | 911                   |
| SUPERPHOSPHATE GRADES:                       |                   |                   |                |                    |                   |                       |
| 18 PERCENT                                   | 29,307            | 12,550            | 0              | 1,178              | 27                | 2,839                 |
| 19 PERCENT                                   | 1,884             | 1,695             | 0              | 18                 | 1,603             | 0                     |
| 20-22 PERCENT                                | 75,764            | 73,307            | 329            | 1,156              | 26,422            | 1,770                 |
| 23-44 PERCENT                                | 242,577           | 361,461           | 556            | 17,132             | 5,261             | 152,625               |
| 45 PERCENT                                   | 225,236           | 322,509           | 11             | 134                | 7                 | 101,014               |
| 46 PERCENT                                   | 572,267           | 489,721           | 2,064          | 10,701             | 15,811            | 256,010               |
| 47-54 PERCENT                                | 46,661            | 49,769            | 0              | 9,031              | 1                 | 1,956                 |
| OTHER  | 62,084            | 117,112           | 2,462          | 9,325              | 11,244            | 30,817                |
| TOTAL  | 2,055,290         | 2,163,919         | 8,419          | 89,028             | 133,256           | 550,723               |
| <b>POTASH MATERIALS</b>                      |                   |                   |                |                    |                   |                       |
| LIME POTASH                                  | 19,356            | 27,439            | 0              | 0                  | 257               | 0                     |
| MANURE SALTS                                 | 6,017             | 7,553             | 0              | 214                | 1,471             | 2,277                 |
| POTASSIUM CHLORIDE                           | 4,284,496         | 5,059,416         | 12,151         | 100,152            | 92,617            | 2,607,316             |
| POTASSIUM MAGNESIUM SULFATE                  | 116,667           | 105,053           | 384            | 3,034              | 32,192            | 12,107                |
| POTASSIUM NITRATE 4/                         | 10,764            | 6,252             | 113            | 134                | 4,614             | 99                    |
| POTASSIUM SODIUM NITRATE                     | 70,438            | 76,485            | 2              | 3,363              | 66,245            | 110                   |
| POTASSIUM SULFATE                            | 58,655            | 48,225            | 1              | 1,707              | 1,515             | 4,802                 |
| OTHER  | 118,931           | 130,846           | 29             | 2,173              | 13,505            | 36,188                |
| TOTAL  | 4,685,324         | 5,461,269         | 12,680         | 110,777            | 212,516           | 2,662,899             |
| <b>SECONDARY AND MICRONUTRIENT MATERIALS</b> |                   |                   |                |                    |                   |                       |
| ALUMINUM COMPOUNDS 5/                        | 39                | 523               | 5              | 158                | 351               | 8                     |
| BORON COMPOUNDS 5/                           | 11,852            | 7,770             | 27             | 513                | 789               | 2,237                 |
| CALCIUM SULFATE (GYPSUM)                     | 1,486,582         | 1,606,633         | 125            | 870                | 326,261           | 1,425                 |
| COPPER COMPOUNDS 5/                          | 646               | 1,207             | 1              | 32                 | 783               | 144                   |
| IRON COMPOUNDS 5/                            | 11,094            | 17,708            | 1              | 16                 | 536               | 21                    |
| MAGNESIUM COMPOUNDS 5/                       | 4,277             | 5,357             | 170            | 1,039              | 1,611             | 437                   |
| MANGANESE COMPOUNDS 5/                       | 10,347            | 10,093            | 0              | 490                | 5,490             | 2,028                 |
| SULFUR 5/                                    | 121,700           | 165,622           | 5              | 63                 | 16,489            | 4,004                 |
| SULFURIC ACID                                | 40,403            | 48,261            | 0              | 0                  | 483               | 0                     |
| ZINC COMPOUNDS 5/                            | 66,726            | 81,533            | 22             | 31                 | 3,992             | 1,441                 |
| OTHER  | 122,975           | 134,916           | 321            | 766                | 27,486            | 15,050                |
| TOTAL  | 1,876,641         | 2,079,623         | 677            | 3,978              | 384,271           | 26,795                |
| <b>TOTAL ALL FERTILIZERS</b>                 | <b>47,497,760</b> | <b>51,031,349</b> | <b>333,186</b> | <b>2,070,381</b>   | <b>8,029,038</b>  | <b>12,015,979</b>     |

SEE FOOTNOTES ON PAGE 7.

TABLE 2 -- TOTAL FERTILIZER CONSUMED, UNITED STATES AND REGIONS,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/ 2/--CONTINUED

| KIND   | 1979                  |                       |                       |                  |                  |                                 |
|--|-----------------------|-----------------------|-----------------------|------------------|------------------|---------------------------------|
|  | WEST NORTH<br>CENTRAL | EAST SOUTH<br>CENTRAL | WEST SOUTH<br>CENTRAL | MOUNTAIN         | PACIFIC          | ALASKA<br>HAWAII<br>PUERTO RICO |
| IONS   |                       |                       |                       |                  |                  |                                 |
| <b>MIXTURES</b>                              |                       |                       |                       |                  |                  |                                 |
| N-P-K  | 2,265,864             | 1,644,454             | 1,851,396             | 126,595          | 500,264          | 279,461                         |
| N-P  | 2,211,369             | 232,100               | 615,194               | 354,163          | 306,636          | 33,429                          |
| N-K  | 13,555                | 5,583                 | 12,584                | 12,523           | 3,519            | 53,069                          |
| P-K  | 213,886               | 220,425               | 195,579               | 4,359            | 2,407            | 726                             |
| TOTAL  | 4,704,674             | 2,102,562             | 2,674,753             | 497,640          | 812,826          | 366,685                         |
| <b>NITROGEN MATERIALS</b>                    |                       |                       |                       |                  |                  |                                 |
| ANHYDROUS AMMONIA                            | 2,482,654             | 104,153               | 550,609               | 214,237          | 252,801          | 34,431                          |
| AQUA AMMONIA                                 | 8,624                 | 2,188                 | 8,073                 | 30,727           | 420,946          | 8,965                           |
| AMMONIUM NITRATE                             | 550,010               | 549,073               | 520,663               | 272,021          | 150,225          | 1,303                           |
| AMMONIUM NITRATE-LIMESTONE                   | 421                   | 289                   | 9                     | 6,582            | 1,863            | 0                               |
| AMMONIUM SULFATE                             | 30,419                | 1,094                 | 137,907               | 185,547          | 323,990          | 4,280                           |
| CALCIUM CYANAMIDE                            | 0                     | 0                     | 0                     | 0                | 0                | 0                               |
| CALCIUM NITRATE                              | 24                    | 2,858                 | 0                     | 1,545            | 35,141           | 53                              |
| NITROGEN SOLUTIONS                           | 1,692,003             | 187,897               | 327,052               | 274,242          | 541,586          | 10,736                          |
| SODIUM NITRATE                               | 182                   | 9,127                 | 2,079                 | 0                | 2,728            | 24                              |
| UREA   | 773,506               | 113,768               | 311,049               | 124,885          | 206,216          | 21,694                          |
| OTHER  | 14,167                | 5,001                 | 21,604                | 43,079           | 142,048          | 3                               |
| TOTAL  | 5,552,010             | 975,448               | 1,879,045             | 1,152,865        | 2,077,544        | 81,489                          |
| <b>NATURAL ORGANIC MATERIALS</b>             |                       |                       |                       |                  |                  |                                 |
| DRIED BLOOD                                  | 2                     | 0                     | 0                     | 1                | 312              | 0                               |
| CASTOR POMACE                                | 0                     | 0                     | 0                     | 0                | 0                | 0                               |
| COMPOST                                      | 71                    | 0                     | 0                     | 1,362            | 0                | 0                               |
| COTTONSEED MEAL                              | 0                     | 31                    | 5,693                 | 0                | 101              | 0                               |
| DRIED MANURE                                 | 182                   | 659                   | 24,375                | 3,836            | 97,510           | 0                               |
| ACTIVATED SEWAGE SLUDGE                      | 6,200                 | 1,850                 | 3,500                 | 777              | 1,436            | 0                               |
| OTHER SEWAGE SLUDGE                          | 0                     | 3,896                 | 0                     | 303              | 34,862           | 0                               |
| TANKAGE                                      | 1                     | 335                   | 0                     | 0                | 4                | 0                               |
| OTHER  | 1,827                 | 0                     | 137                   | 1,601            | 5,568            | 0                               |
| TOTAL  | 8,283                 | 6,771                 | 33,703                | 7,880            | 139,793          | 0                               |
| <b>PHOSPHATE MATERIALS</b>                   |                       |                       |                       |                  |                  |                                 |
| AMMONIUM PHOSPHATE 3/                        | 42,436                | 68                    | 87,773                | 101,341          | 289,995          | 1,279                           |
| BASIC SLAG                                   | 0                     | 43,866                | 1,325                 | 0                | 0                | 6,533                           |
| RAW AND STEAMED BONEMEAL                     | 0                     | 0                     | 2                     | 14               | 246              | 19                              |
| PHOSPHORIC SOLUTIONS                         | 11,185                | 0                     | 2,519                 | 7,217            | 8,553            | 101                             |
| PHOSPHATE ROCK                               | 488                   | 0                     | 98                    | 75               | 6,808            | 1,041                           |
| COLLOIDAL PHOSPHATE                          | 2,795                 | 0                     | 96                    | 0                | 0                | 0                               |
| <b>SUPERPHOSPHATE GRADES:</b>                |                       |                       |                       |                  |                  |                                 |
| 18 PERCENT                                   | 981                   | 0                     | 80                    | 0                | 7,445            | 0                               |
| 19 PERCENT                                   | 0                     | 0                     | 0                     | 0                | 74               | 0                               |
| 20-22 PERCENT                                | 5,257                 | 6,351                 | 2,005                 | 2,144            | 27,873           | 0                               |
| 23-44 PERCENT                                | 156,487               | 17,000                | 533                   | 10,082           | 1,785            | 0                               |
| 45 PERCENT                                   | 135,837               | 2,152                 | 9,200                 | 40,972           | 28,856           | 4,326                           |
| 46 PERCENT                                   | 67,452                | 91,975                | 39,469                | 517              | 4,630            | 1,092                           |
| 47-54 PERCENT                                | 3,361                 | 6,224                 | 0                     | 19,843           | 9,353            | 0                               |
| OTHER  | 756                   | 47                    | 36,125                | 13,944           | 12,388           | 4                               |
| TOTAL  | 427,035               | 167,683               | 179,225               | 196,149          | 398,006          | 14,395                          |
| <b>POTASH MATERIALS</b>                      |                       |                       |                       |                  |                  |                                 |
| LIME POTASH                                  | 456                   | 0                     | 26,726                | 0                | 0                | 0                               |
| MANURE SALTS                                 | 2,600                 | 985                   | 6                     | 0                | 0                | 0                               |
| POTASSIUM CHLORIDE                           | 1,743,993             | 310,371               | 72,960                | 23,663           | 77,868           | 18,325                          |
| POTASSIUM MAGNESIUM SULFATE                  | 23,902                | 4,713                 | 13,919                | 7,292            | 7,294            | 216                             |
| POTASSIUM NITRATE 4/                         | 28                    | 137                   | 0                     | 13               | 1,019            | 95                              |
| POTASSIUM SODIUM NITRATE                     | 216                   | 5,837                 | 612                   | 0                | 0                | 0                               |
| POTASSIUM SULFATE                            | 395                   | 20,000                | 151                   | 7,320            | 11,071           | 1,263                           |
| OTHER  | 54,593                | 3,109                 | 2,378                 | 15,602           | 3,252            | 17                              |
| TOTAL  | 1,826,183             | 345,152               | 116,752               | 53,890           | 100,504          | 19,916                          |
| <b>SECONDARY AND MICRONUTRIENT MATERIALS</b> |                       |                       |                       |                  |                  |                                 |
| ALUMINUM COMPOUNDS 5/                        | 0                     | 0                     | 0                     | 1                | 0                | 0                               |
| BORON COMPOUNDS 5/                           | 476                   | 686                   | 31                    | 77               | 2,933            | 1                               |
| CALCIUM SULFATE (GYPSUM)                     | 5,737                 | 410                   | 0                     | 17,974           | 1,253,831        | 0                               |
| COPPER COMPOUNDS 5/                          | 134                   | 7                     | 0                     | 46               | 60               | 0                               |
| IRON COMPOUNDS 5/                            | 7,809                 | 1,001                 | 9                     | 2,779            | 3,720            | 1,816                           |
| MAGNESIUM COMPOUNDS 5/                       | 573                   | 233                   | 1                     | 93               | 809              | 391                             |
| MANGANESE COMPOUNDS 5/                       | 1,102                 | 0                     | 0                     | 417              | 515              | 46                              |
| SULFUR 5/                                    | 58,163                | 141                   | 33                    | 14,230           | 72,453           | 46                              |
| SULFURIC ACID                                | 0                     | 0                     | 0                     | 1,624            | 46,154           | 0                               |
| ZINC COMPOUNDS 5/                            | 38,650                | 356                   | 122                   | 10,984           | 25,779           | 156                             |
| OTHER  | 34,143                | 20,668                | 2,433                 | 9,733            | 24,316           | 0                               |
| TOTAL  | 146,787               | 23,502                | 2,629                 | 57,958           | 1,430,570        | 2,456                           |
| <b>TOTAL ALL FERTILIZERS</b>                 | <b>12,664,972</b>     | <b>3,621,118</b>      | <b>4,886,109</b>      | <b>1,966,382</b> | <b>4,959,243</b> | <b>484,541</b>                  |

1/ EXCLUDES LIMING MATERIALS AND ALL MATERIALS USED IN MAKING MIXTURES.

2/ STATES THAT ARE INCLUDED IN EACH REGION ARE DETAILED IN TABLE 15.

3/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0.

4/ ADDITIONAL QUANTITIES MAY HAVE BEEN REPORTED BY GRADE UNDER MIXTURES; SEE TABLE 15.

5/ REPORTED FOR USE PRIMARILY AS DIRECT APPLICATION MATERIAL.



TABLE 3 -- CONSUMPTION OF FERTILIZER MIXTURES AND DIRECT APPLICATION MATERIALS,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/

| STATE | MIXTURES   |            | DIRECT APPLICATION MATERIALS 2/ |            |                              |           | TOTAL      |            |                         |
|-------|------------|------------|---------------------------------|------------|------------------------------|-----------|------------|------------|-------------------------|
|       |            |            | PRIMARY NUTRIENT                |            | SECONDARY AND MICRO-NUTRIENT |           | 1978       | 1979       | 1979 AS PERCENT OF 1978 |
|       | 1978       | 1979       | 1978                            | 1979       | 1978                         | 1979      |            |            |                         |
|       |            |            | -- T U N S --                   |            |                              |           |            |            | PERCENT                 |
| ALA   | 687,228    | 711,462    | 364,006                         | 339,255    | 15,740                       | 19,720    | 1,066,974  | 1,070,438  | 100                     |
| ALAS  | 4,185      | 3,118      | 1,245                           | 1,655      | 0                            | 0         | 5,430      | 4,773      | 88                      |
| ARIZ  | 48,260     | 63,616     | 233,186                         | 240,596    | 20,624                       | 16,337    | 302,070    | 320,549    | 106                     |
| ARK   | 368,703    | 370,692    | 272,872                         | 291,617    | 1,301                        | 2,585     | 642,876    | 664,894    | 103                     |
| CALIF | 652,234    | 544,087    | 1,812,212                       | 1,623,605  | 1,315,945                    | 1,390,079 | 3,780,391  | 3,557,771  | 94                      |
| COLO  | 106,252    | 79,212     | 288,488                         | 297,726    | 13,197                       | 9,044     | 407,937    | 385,983    | 95                      |
| CONN  | 38,777     | 38,831     | 21,069                          | 20,704     | 117                          | 431       | 59,963     | 59,966     | 100                     |
| DEL   | 76,156     | 80,946     | 43,635                          | 47,778     | 165                          | 236       | 119,958    | 128,960    | 108                     |
| D C   | 6,060      | 10,595     | 795                             | 1,867      | 205                          | 50        | 7,060      | 12,516     | 177                     |
| FLA   | 1,648,486  | 1,860,227  | 298,653                         | 308,033    | 51,689                       | 56,244    | 1,998,828  | 2,224,504  | 111                     |
| GA    | 1,295,151  | 1,324,990  | 710,731                         | 716,623    | 165,652                      | 205,893   | 2,171,534  | 2,247,506  | 103                     |
| HAW   | 133,792    | 119,866    | 57,705                          | 103,800    | 2,248                        | 2,456     | 193,745    | 226,122    | 117                     |
| IDAHO | 58,733     | 122,786    | 482,100                         | 447,316    | 27,459                       | 20,829    | 608,292    | 590,931    | 97                      |
| ILL   | 1,229,425  | 1,455,968  | 2,378,459                       | 2,761,740  | 194                          | 251       | 3,608,092  | 4,217,959  | 117                     |
| IND   | 1,413,031  | 1,509,264  | 1,378,230                       | 1,363,787  | 324                          | 691       | 2,791,585  | 2,873,742  | 103                     |
| IOWA  | 1,127,775  | 1,288,187  | 2,120,006                       | 2,590,695  | 19,946                       | 55,060    | 3,267,725  | 3,933,942  | 120                     |
| KANS  | 379,971    | 460,375    | 1,011,316                       | 1,086,937  | 31,524                       | 31,015    | 1,422,811  | 1,578,331  | 111                     |
| KY    | 537,981    | 538,826    | 474,501                         | 474,670    | 1,649                        | 2,424     | 1,014,531  | 1,015,920  | 100                     |
| LA    | 435,465    | 416,715    | 218,102                         | 215,111    | 208                          | 0         | 653,773    | 631,826    | 97                      |
| MAINE | 103,674    | 101,240    | 5,321                           | 8,785      | 135                          | 3         | 113,330    | 110,028    | 97                      |
| MD    | 255,366    | 304,454    | 123,042                         | 150,166    | 192                          | 293       | 418,620    | 454,913    | 109                     |
| MASS  | 71,471     | 58,397     | 14,970                          | 11,393     | 62                           | 224       | 86,503     | 70,014     | 81                      |
| MICH  | 677,416    | 685,086    | 542,989                         | 610,937    | 5,282                        | 12,443    | 1,225,687  | 1,308,466  | 107                     |
| MINN  | 686,293    | 756,212    | 1,265,720                       | 1,618,676  | 14,293                       | 14,737    | 1,966,306  | 2,389,626  | 122                     |
| MISS  | 425,728    | 417,011    | 265,633                         | 335,958    | 566                          | 237       | 791,927    | 753,206    | 95                      |
| MO    | 1,116,126  | 1,370,074  | 329,004                         | 388,089    | 82                           | 376       | 1,445,212  | 1,758,539  | 122                     |
| MONT  | 119,293    | 166,565    | 123,343                         | 160,131    | 7,286                        | 7,138     | 249,922    | 333,834    | 134                     |
| NEBR  | 387,106    | 423,569    | 1,399,631                       | 1,440,135  | 15,942                       | 37,594    | 1,802,979  | 1,901,298  | 105                     |
| NEV   | 4,464      | 5,192      | 20,506                          | 19,655     | 2,391                        | 1,632     | 27,361     | 26,479     | 97                      |
| N H   | 19,362     | 20,781     | 4,818                           | 5,595      | 57                           | 19        | 24,257     | 26,395     | 109                     |
| N J   | 152,105    | 160,171    | 28,897                          | 34,301     | 4,014                        | 1,956     | 185,020    | 196,428    | 106                     |
| N MEX | 32,747     | 36,907     | 76,206                          | 76,154     | 2,143                        | 2,598     | 111,096    | 115,659    | 104                     |
| N Y   | 451,257    | 429,894    | 138,424                         | 206,783    | 1,005                        | 1,107     | 590,726    | 637,784    | 108                     |
| N C   | 1,285,975  | 1,307,702  | 516,926                         | 538,734    | 54,126                       | 88,971    | 1,857,027  | 1,935,407  | 104                     |
| N DAK | 272,250    | 257,345    | 572,347                         | 443,561    | 2,643                        | 3,130     | 647,280    | 704,036    | 109                     |
| OHIO  | 562,674    | 1,040,960  | 1,005,487                       | 1,182,929  | 2,784                        | 5,340     | 1,970,945  | 2,229,229  | 113                     |
| OKLA  | 237,613    | 303,370    | 451,527                         | 555,455    | 620                          | 25        | 689,760    | 858,850    | 125                     |
| OREG  | 76,160     | 106,071    | 415,734                         | 415,319    | 17,340                       | 13,796    | 509,234    | 535,186    | 105                     |
| PA    | 482,611    | 402,363    | 181,394                         | 176,381    | 374                          | 302       | 664,379    | 579,046    | 87                      |
| R I   | 9,586      | 10,373     | 4,292                           | 3,618      | 0                            | 0         | 13,678     | 13,991     | 102                     |
| S C   | 574,777    | 568,253    | 262,936                         | 247,186    | 5,999                        | 5,308     | 843,712    | 820,747    | 97                      |
| S DAK | 149,902    | 148,907    | 218,869                         | 245,418    | 4,615                        | 4,075     | 373,386    | 399,200    | 107                     |
| TENN  | 449,875    | 435,262    | 346,900                         | 345,171    | 1,201                        | 1,121     | 797,974    | 781,554    | 98                      |
| TEX   | 1,357,922  | 1,583,976  | 1,125,473                       | 1,146,544  | 244                          | 19        | 2,523,639  | 2,730,539  | 108                     |
| UTAH  | 12,083     | 11,326     | 111,025                         | 104,584    | 408                          | 84        | 123,516    | 115,994    | 94                      |
| VT    | 36,344     | 41,882     | 9,644                           | 10,910     | 55                           | 0         | 46,043     | 52,792     | 115                     |
| VA    | 578,318    | 578,294    | 150,017                         | 194,725    | 20,898                       | 27,855    | 789,233    | 800,874    | 101                     |
| WASH  | 126,682    | 162,668    | 636,861                         | 676,923    | 26,642                       | 26,695    | 790,185    | 866,286    | 110                     |
| W VA  | 38,261     | 27,580     | 27,150                          | 33,120     | 28                           | 34        | 65,439     | 60,734     | 93                      |
| WIS   | 463,760    | 461,461    | 562,526                         | 917,052    | 16,414                       | 8,070     | 1,442,700  | 1,386,583  | 96                      |
| WYO   | 23,310     | 12,035     | 54,541                          | 64,622     | 613                          | 296       | 78,864     | 76,953     | 98                      |
| P R   | 101,626    | 243,701    | 6,619                           | 10,345     | 0                            | 0         | 108,245    | 254,046    | 235                     |
| TOTAL | 22,109,936 | 23,638,856 | 23,511,183                      | 25,312,870 | 1,876,641                    | 2,079,623 | 47,497,760 | 51,031,349 | 107                     |

1/ EXCLUDES LIMING MATERIALS. 2/ EXCLUDES MATERIALS USED IN COMMERCIAL MIXTURES.

TABLE 4 -- SEMIANNUAL CONSUMPTION OF FERTILIZER MIXTURES AND MATERIALS,  
YEAR ENDED JUNE 30, 1979 1/

| STATE | MIXTURES                |                         |            | MATERIALS 2/            |                         |            | TOTAL MIXTURES<br>AND MATERIALS<br>JUL 1 1978 TO<br>JUN 30 1979 |
|-------|-------------------------|-------------------------|------------|-------------------------|-------------------------|------------|---|
|       | JUL 1 TO<br>DEC 31 1978 | JAN 1 TO<br>JUN 30 1979 | TOTAL      | JUL 1 TO<br>DEC 31 1978 | JAN 1 TO<br>JUN 30 1979 | TOTAL      |   |
|       |                         |                         |            | IQNS                    |                         |            |   |
| ALA   | 153,095                 | 558,368                 | 711,463    | 87,752                  | 271,223                 | 358,975    | 1,070,438   |
| ALAS  | 1,091                   | 2,027                   | 3,118      | 679                     | 976                     | 1,655      | 4,773   |
| ARIZ  | 20,890                  | 42,726                  | 63,616     | 84,824                  | 172,109                 | 256,933    | 320,549   |
| ARK   | 113,014                 | 257,678                 | 370,692    | 107,215                 | 186,987                 | 294,202    | 664,894   |
| CALIF | 263,055                 | 281,032                 | 544,087    | 1,751,628               | 1,262,056               | 3,013,684  | 3,557,771   |
| COLO  | 21,391                  | 57,822                  | 79,213     | 83,014                  | 223,756                 | 306,770    | 385,983   |
| CONN  | 4,465                   | 34,366                  | 38,831     | 4,755                   | 16,380                  | 21,135     | 59,966  |
| DEL   | 12,299                  | 68,647                  | 80,946     | 14,468                  | 33,546                  | 48,014     | 128,960   |
| D C   | 2,437                   | 8,162                   | 10,599     | 345                     | 1,572                   | 1,917      | 12,516  |
| FLA   | 678,893                 | 1,181,244               | 1,860,227  | 116,569                 | 247,708                 | 364,277    | 2,224,504   |
| GA    | 225,176                 | 1,059,814               | 1,324,990  | 190,166                 | 732,350                 | 922,516    | 2,247,506   |
| HAW   | 59,658                  | 60,208                  | 119,866    | 46,709                  | 59,547                  | 106,256    | 226,122   |
| IDAHO | 40,043                  | 82,743                  | 122,786    | 158,553                 | 309,592                 | 468,145    | 590,931   |
| ILL   | 721,887                 | 734,081                 | 1,455,968  | 1,117,003               | 1,644,988               | 2,761,991  | 4,217,959   |
| IND   | 457,641                 | 1,011,623               | 1,509,264  | 499,122                 | 865,356                 | 1,364,478  | 2,873,742   |
| IOWA  | 612,163                 | 676,024                 | 1,288,187  | 1,078,549               | 1,567,206               | 2,645,755  | 3,933,942   |
| KANS  | 233,019                 | 227,360                 | 460,379    | 439,045                 | 678,907                 | 1,117,952  | 1,578,331   |
| KY    | 58,751                  | 440,075                 | 538,826    | 121,161                 | 355,933                 | 477,094    | 1,015,920   |
| LA    | 91,677                  | 325,038                 | 416,715    | 96,800                  | 118,311                 | 215,111    | 631,826   |
| MAINE | 22,273                  | 78,967                  | 101,240    | 1,845                   | 6,943                   | 8,788      | 110,028   |
| MD    | 67,387                  | 237,067                 | 304,454    | 47,654                  | 102,805                 | 150,459    | 454,913   |
| MASS  | 12,655                  | 45,742                  | 58,397     | 3,645                   | 7,972                   | 11,617     | 70,014  |
| MICH  | 172,848                 | 512,238                 | 685,086    | 184,456                 | 438,924                 | 623,380    | 1,308,466   |
| MINN  | 378,851                 | 377,362                 | 756,213    | 861,713                 | 771,700                 | 1,633,413  | 2,389,626   |
| MISS  | 108,423                 | 308,588                 | 417,011    | 94,135                  | 242,060                 | 336,195    | 753,206   |
| MO    | 482,906                 | 887,168                 | 1,370,074  | 82,307                  | 306,156                 | 388,465    | 1,758,539   |
| MONT  | 69,054                  | 97,511                  | 166,565    | 40,215                  | 127,054                 | 167,269    | 333,834   |
| NEBR  | 84,432                  | 339,137                 | 423,569    | 366,246                 | 1,111,483               | 1,477,729  | 1,901,298   |
| NEV   | 1,191                   | 4,001                   | 5,192      | 7,060                   | 14,227                  | 21,287     | 26,479  |
| N H   | 5,057                   | 15,724                  | 20,781     | 1,117                   | 4,497                   | 5,614      | 26,355  |
| N J   | 33,843                  | 126,328                 | 160,171    | 9,076                   | 27,181                  | 36,257     | 196,428   |
| N MEX | 9,494                   | 27,413                  | 36,907     | 24,454                  | 54,298                  | 78,752     | 115,659   |
| N Y   | 121,774                 | 308,120                 | 429,894    | 48,293                  | 159,597                 | 207,890    | 637,784   |
| N C   | 174,725                 | 1,132,977               | 1,307,702  | 166,671                 | 461,034                 | 627,705    | 1,935,407   |
| N DAK | 87,907                  | 169,438                 | 257,345    | 193,494                 | 253,197                 | 446,691    | 704,036   |
| OHIO  | 343,231                 | 657,729                 | 1,040,960  | 397,151                 | 791,118                 | 1,188,269  | 2,229,229   |
| OKLA  | 161,269                 | 142,101                 | 303,370    | 294,967                 | 260,513                 | 555,480    | 858,850   |
| ORE   | 42,350                  | 63,721                  | 106,071    | 131,994                 | 297,121                 | 429,115    | 535,186   |
| PA    | 58,379                  | 303,984                 | 402,363    | 47,456                  | 129,227                 | 176,683    | 579,046   |
| R I   | 2,178                   | 8,195                   | 10,373     | 832                     | 2,786                   | 3,618      | 13,991  |
| S C   | 78,868                  | 489,385                 | 568,253    | 56,100                  | 196,394                 | 252,494    | 820,747   |
| S DAK | 46,209                  | 102,658                 | 148,867    | 83,193                  | 167,100                 | 250,293    | 399,200   |
| TENN  | 80,523                  | 354,739                 | 435,262    | 100,425                 | 245,867                 | 346,292    | 781,554   |
| TEX   | 452,189                 | 1,131,787               | 1,583,976  | 400,221                 | 746,342                 | 1,146,563  | 2,730,539   |
| UTAH  | 4,877                   | 6,449                   | 11,326     | 46,924                  | 57,744                  | 104,668    | 115,994   |
| VT    | 10,470                  | 31,412                  | 41,882     | 2,400                   | 8,510                   | 10,910     | 52,792  |
| VA    | 102,885                 | 475,409                 | 578,294    | 80,552                  | 142,028                 | 222,580    | 800,874   |
| WASH  | 44,628                  | 118,040                 | 162,668    | 259,493                 | 444,125                 | 703,618    | 866,286   |
| W VA  | 6,908                   | 20,672                  | 27,580     | 11,359                  | 21,795                  | 33,154     | 60,734  |
| WIS   | 133,523                 | 327,938                 | 461,461    | 352,069                 | 573,053                 | 925,122    | 1,386,583   |
| WYO   | 7,167                   | 4,866                   | 12,035     | 26,381                  | 38,537                  | 64,918     | 76,953  |
| P R   | 115,512                 | 128,189                 | 243,701    | 5,690                   | 4,655                   | 10,345     | 254,046   |
| TOTAL | 7,414,721               | 16,224,135              | 23,638,856 | 10,427,945              | 16,964,548              | 27,392,493 | 51,031,349  |

1/ EXCLUDES LIMING MATERIALS

2/ INCLUDES PRIMARY NUTRIENT MATERIALS (N, P, K, S, O) AND SECONDARY/MICRONUTRIENT MATERIALS FOR DIRECT APPLICATION

2 5 2

TABLE 5 -- DIRECT APPLICATION NITROGEN MATERIALS CONSUMPTION,  
YEARS ENDED JUNE 30, 1978, AND 1979

| STATE            | AMMONIA   |           |         |         | AMMONIUM  |           |          |         |
|------------------|-----------|-----------|---------|---------|-----------|-----------|----------|---------|
|                  | ANHYDROUS |           | AQUA    |         | NITRATE   |           | SULPHATE |         |
|                  | 1978      | 1979      | 1978    | 1979    | 1978      | 1979      | 1978     | 1979    |
| ----- TONS ----- |           |           |         |         |           |           |          |         |
| ALA              | 19,099    | 16,270    | 0       | 2,188   | 187,772   | 177,249   | 2,934    | 1       |
| ALAS             | 0         | 0         | 0       | 0       | 670       | 590       | 0        | 0       |
| ARIZ             | 43,425    | 39,155    | 15,544  | 23,306  | 3,770     | 5,585     | 8,811    | 0,174   |
| ARK              | 9,792     | 6,284     | 1       | 54      | 56,127    | 57,005    | 80       | 0       |
| CALIF            | 173,780   | 147,581   | 257,746 | 255,843 | 74,361    | 84,482    | 278,180  | 223,704 |
| COLO             | 78,727    | 69,688    | 0       | 204     | 63,849    | 63,701    | 22,194   | 23,593  |
| CONN             | 0         | 0         | 0       | 0       | 111       | 111       | 2        | 2       |
| DEL              | 895       | 1,045     | 0       | 0       | 1,985     | 2,197     | 524      | 2,102   |
| D C              | 0         | 0         | 0       | 0       | 75        | 100       | 0        | 0       |
| FLA              | 7,685     | 8,222     | 178     | 0       | 58,965    | 74,402    | 7,428    | 7,165   |
| GA               | 39,371    | 33,145    | 80      | 4       | 152,260   | 140,948   | 5,533    | 3,594   |
| HAW              | 0         | 34,281    | 15,660  | 1,965   | 0         | 713       | 8,013    | 1,549   |
| IDAHO            | 49,812    | 65,624    | 10,574  | 7,166   | 65,134    | 68,421    | 122,257  | 111,758 |
| ILL              | 456,492   | 567,572   | 10,615  | 0       | 48,453    | 50,714    | 5,161    | 4,836   |
| IND              | 236,485   | 226,416   | 1,332   | 2,065   | 1,278     | 1,894     | 14,775   | 12,889  |
| IOWA             | 654,366   | 651,662   | 710     | 0       | 72,713    | 77,342    | 11,180   | 8,458   |
| KANS             | 395,376   | 436,820   | 0       | 120     | 167,424   | 177,658   | 3,757    | 2,727   |
| KY               | 42,905    | 34,013    | 137     | 0       | 106,679   | 126,617   | 871      | 1,093   |
| LA               | 27,482    | 26,651    | 1,010   | 337     | 93,021    | 85,039    | 19,001   | 21,435  |
| MAINE            | 0         | 0         | 0       | 0       | 1,123     | 1,573     | 0        | 14      |
| MD               | 5,889     | 9,575     | 0       | 0       | 11,369    | 7,973     | 2,142    | 1,818   |
| MASS             | 0         | 4         | 12      | 0       | 377       | 349       | 16       | 23      |
| MICH             | 51,708    | 111,475   | 1,109   | 1,775   | 20,035    | 25,000    | 9,679    | 7,080   |
| MINN             | 519,918   | 413,258   | 3,265   | 3,715   | 49,205    | 21,459    | 5,982    | 7,186   |
| MISS             | 59,274    | 42,766    | 0       | 0       | 159,027   | 152,276   | 0        | 0       |
| MO               | 85,493    | 103,273   | 25      | 0       | 84,068    | 96,842    | 0        | 21      |
| MONT             | 2,607     | 6,576     | 47      | 0       | 57,519    | 66,088    | 3,969    | 5,469   |
| NEBK             | 608,219   | 610,715   | 3,807   | 2,910   | 112,161   | 104,304   | 10,482   | 8,742   |
| NEV              | 524       | 885       | 0       | 0       | 774       | 1,005     | 3,964    | 3,847   |
| N H              | 0         | 0         | 0       | 0       | 466       | 283       | 17       | 174     |
| N J              | 156       | 164       | 5       | 9       | 2,575     | 3,004     | 25       | 303     |
| N MEX            | 20,857    | 15,475    | 9       | 51      | 2,091     | 1,726     | 2,976    | 4,144   |
| N Y              | 8,481     | 11,838    | 0       | 0       | 8,261     | 13,448    | 2,364    | 980     |
| N C              | 13,173    | 14,723    | 86      | 136     | 54,805    | 54,949    | 1,262    | 1,959   |
| N DAK            | 189,128   | 224,475   | 0       | 0       | 26,712    | 22,164    | 1,271    | 2,227   |
| OHIO             | 125,537   | 149,955   | 304     | 25      | 14,575    | 13,828    | 15,783   | 14,343  |
| OKLA             | 157,476   | 200,387   | 0       | 0       | 120,545   | 138,826   | 3,507    | 3,634   |
| OREG             | 18,053    | 21,771    | 21,396  | 24,568  | 22,182    | 20,402    | 76,332   | 66,049  |
| PA               | 3,867     | 3,574     | 44      | 36      | 4,425     | 3,394     | 3,016    | 5,711   |
| R I              | 0         | 0         | 0       | 0       | 14        | 34        | 0        | 0       |
| S C              | 3,629     | 3,502     | 223     | 157     | 28,911    | 29,029    | 1,605    | 1,401   |
| S DAK            | 32,102    | 40,451    | 1,909   | 1,879   | 57,920    | 50,241    | 1,096    | 1,058   |
| TENN             | 14,383    | 11,104    | 0       | 0       | 94,486    | 92,931    | 0        | 0       |
| TEX              | 528,743   | 317,287   | 911     | 7,682   | 233,965   | 239,793   | 121,071  | 112,838 |
| UTAH             | 3,680     | 5,436     | 0       | 0       | 34,748    | 34,101    | 22,050   | 28,253  |
| VT               | 0         | 0         | 0       | 0       | 47        | 329       | 32       | 0       |
| VA               | 61        | 120       | 21      | 0       | 13,597    | 12,820    | 1,328    | 911     |
| WASH             | 68,606    | 63,445    | 108,110 | 140,135 | 57,326    | 45,261    | 36,020   | 34,237  |
| W VA             | 0         | 0         | 0       | 0       | 4,672     | 4,704     | 0        | 0       |
| WIS              | 92,547    | 92,113    | 2,678   | 4,667   | 28,206    | 26,883    | 5,427    | 6,004   |
| WYO              | 9,074     | 11,404    | 0       | 0       | 26,880    | 31,394    | 411      | 305     |
| P R              | 158       | 150       | 2,731   | 7,000   | 0         | 0         | 2,540    | 2,731   |
| TOTAL            | 4,535,179 | 4,882,736 | 500,283 | 488,397 | 2,487,714 | 2,511,261 | 845,068  | 754,634 |

TABLE 5 -- DIRECT APPLICATION NITROGEN MATERIALS CONSUMPTION,  
YEARS ENDED JUNE 30, 1978, AND 1979--CONTINUED

| STATE            | NITROGEN SOLUTIONS |           | SODIUM NITRATE |        | UREA      |           | AMMONIUM NITRATE-LINESTONE |        |
|------------------|--------------------|-----------|----------------|--------|-----------|-----------|----------------------------|--------|
|                  | 1978               | 1979      | 1978           | 1979   | 1978      | 1979      | 1978                       | 1979   |
| ----- TONS ----- |                    |           |                |        |           |           |                            |        |
| ALA              | 67,080             | 64,935    | 1,136          | 1,329  | 4,430     | 3,268     | 200                        | 277    |
| ALAS             | 0                  | 0         | 0              | 0      | 510       | 900       | 0                          | 0      |
| ARIZ             | 75,740             | 80,938    | 0              | 0      | 34,022    | 29,128    | 3,155                      | 6,326  |
| ARK              | 20,748             | 23,088    | 6              | 1,458  | 142,643   | 163,623   | 0                          | 9      |
| CALIF            | 366,411            | 364,968   | 0              | 2,728  | 72,585    | 64,938    | 1,755                      | 1,863  |
| COLO             | 76,093             | 93,215    | 2              | 0      | 11,177    | 9,361     | 19                         | 0      |
| CONN             | 96                 | 0         | 43             | 43     | 3,662     | 3,662     | 0                          | 0      |
| DEL              | 22,237             | 24,278    | 33             | 35     | 2,499     | 1,936     | 0                          | 0      |
| D C              | 60                 | 100       | 0              | 0      | 90        | 131       | 0                          | 0      |
| FLA              | 77,087             | 72,322    | 1,850          | 1,441  | 6,694     | 5,487     | 6,942                      | 870    |
| GA               | 399,371            | 407,765   | 5,235          | 4,548  | 1,147     | 1,540     | 837                        | 78     |
| HAW              | 0                  | 10,736    | 0              | 24     | 9,670     | 20,757    | 0                          | 0      |
| IDAHO            | 59,267             | 60,938    | 0              | 0      | 26,018    | 39,636    | 0                          | 0      |
| ILL              | 518,899            | 652,914   | 1              | 0      | 129,380   | 133,024   | 0                          | 0      |
| IND              | 508,802            | 457,411   | 0              | 0      | 31,737    | 26,753    | 106                        | 6      |
| IOWA             | 453,040            | 546,566   | 0              | 0      | 176,363   | 242,210   | 0                          | 3      |
| KANS             | 286,367            | 294,700   | 0              | 0      | 70,625    | 75,600    | 0                          | 0      |
| KY               | 82,132             | 47,506    | 1,346          | 1,023  | 36,924    | 37,691    | 0                          | 12     |
| LA               | 17,880             | 16,058    | 552            | 469    | 23,625    | 20,962    | 0                          | 0      |
| MAINE            | 0                  | 0         | 12             | 0      | 2,845     | 2,774     | 0                          | 0      |
| MD               | 49,806             | 64,562    | 517            | 1,024  | 10,580    | 14,167    | 0                          | 0      |
| MASS             | 512                | 484       | 22             | 64     | 2,447     | 2,842     | 0                          | 0      |
| MICH             | 95,200             | 109,594   | 42             | 777    | 73,970    | 77,699    | 0                          | 0      |
| MINN             | 119,959            | 168,516   | 0              | 0      | 175,727   | 225,490   | 0                          | 16     |
| MISS             | 41,820             | 41,962    | 2,727          | 5,420  | 46,342    | 45,176    | 0                          | 0      |
| MO               | 85,898             | 98,721    | 290            | 182    | 42,918    | 46,546    | 3                          | 159    |
| MONT             | 5,121              | 6,846     | 0              | 0      | 14,741    | 34,455    | 0                          | 250    |
| NEBR             | 405,566            | 457,976   | 0              | 0      | 51,501    | 54,520    | 0                          | 0      |
| NEV              | 7,716              | 1,904     | 0              | 0      | 185       | 516       | 29                         | 6      |
| N H              | 0                  | 0         | 2              | 2      | 992       | 1,304     | 0                          | 0      |
| N J              | 3,771              | 4,545     | 448            | 754    | 5,836     | 5,541     | 20                         | 13     |
| N MEX            | 15,213             | 15,675    | 0              | 0      | 6,909     | 5,019     | 7                          | 0      |
| N Y              | 41,333             | 46,850    | 776            | 15,518 | 21,519    | 9,560     | 158                        | 62     |
| N C              | 326,178            | 342,717   | 32,295         | 34,445 | 2,048     | 1,940     | 0                          | 136    |
| N DAK            | 45,669             | 66,475    | 0              | 0      | 68,735    | 78,659    | 0                          | 0      |
| OHIO             | 271,976            | 306,227   | 169            | 157    | 133,542   | 139,912   | 0                          | 3      |
| OKLA             | 54,849             | 68,124    | 82             | 152    | 46,363    | 60,058    | 0                          | 0      |
| OREG             | 54,639             | 58,656    | 0              | 0      | 82,179    | 72,277    | 0                          | 0      |
| PA               | 34,157             | 51,608    | 59             | 63     | 55,875    | 41,439    | 0                          | 0      |
| R I              | 4                  | 0         | 1              | 12     | 573       | 680       | 0                          | 0      |
| S C              | 174,673            | 158,587   | 8,367          | 7,193  | 1,622     | 968       | 0                          | 0      |
| S DAK            | 45,822             | 59,049    | 0              | 0      | 42,012    | 50,481    | 23                         | 243    |
| TENN             | 39,067             | 33,494    | 1,112          | 1,355  | 40,705    | 27,633    | 0                          | 0      |
| TEX              | 181,966            | 219,772   | 0              | 0      | 79,510    | 66,406    | 0                          | 0      |
| UTAH             | 1,380              | 2,337     | 184            | 0      | 6,880     | 5,158     | 420                        | 0      |
| VT               | 457                | 1,538     | 0              | 0      | 2,736     | 2,650     | 0                          | 0      |
| VA               | 133,907            | 137,187   | 3,211          | 3,567  | 4,475     | 4,091     | 78                         | 37     |
| WASH             | 116,156            | 117,962   | 0              | 0      | 57,386    | 69,001    | 0                          | 0      |
| W VA             | 126                | 25        | 126            | 163    | 4,384     | 3,124     | 0                          | 0      |
| WIS              | 120,042            | 125,400   | 0              | 0      | 81,867    | 85,728    | 0                          | 0      |
| WYO              | 6,602              | 12,385    | 52             | 0      | 2,224     | 1,612     | 0                          | 0      |
| P R              | 0                  | 0         | 0              | 0      | 663       | 37        | 0                          | 0      |
| TOTAL            | 5,510,895          | 5,998,830 | 60,698         | 83,946 | 1,934,092 | 2,118,070 | 13,752                     | 10,377 |

TABLE 6 -- DIRECT APPLICATION NITROGEN, AND SECONDARY AND MICRONUTRIENT MATERIALS CONSUMPTION,  
YEARS ENDED JUNE 30, 1978, AND 1979

| STATE | NITROGEN MATERIALS |         | SECONDARY AND MICRONUTRIENT |           |         |         |
|-------|--------------------|---------|-----------------------------|-----------|---------|---------|
|       | OTHER              |         | GYPSUM                      |           | OTHER   |         |
|       | 1978               | 1979    | 1978                        | 1979      | 1978    | 1979    |
|       | ----- TONS -----   |         |                             |           |         |         |
| ALA   | 836                | 533     | 1                           | 195       | 15,739  | 19,525  |
| ALAS  | 0                  | 0       | 0                           | 0         | 0       | 0       |
| ARIZ  | 3,245              | 1,619   | 9,353                       | 8,623     | 11,271  | 7,714   |
| ARK   | 8,027              | 5,180   | 0                           | 0         | 1,301   | 2,585   |
| CALIF | 28,511             | 65,619  | 1,169,714                   | 1,237,212 | 146,231 | 152,867 |
| COLO  | 1,136              | 506     | 613                         | 1,947     | 12,584  | 7,097   |
| CONN  | 1,512              | 1,361   | 80                          | 80        | 37      | 351     |
| DEL   | 88                 | 55      | 0                           | 0         | 165     | 236     |
| D C   | 65                 | 25      | 0                           | 0         | 205     | 50      |
| FLA   | 5,152              | 6,674   | 25,239                      | 25,984    | 26,450  | 30,260  |
| GA    | 4,339              | 2,679   | 164,119                     | 199,899   | 1,533   | 5,994   |
| HAW   | 183                | 53      | 0                           | 0         | 2,248   | 2,456   |
| IDAHO | 45,519             | 27,623  | 2,367                       | 3,472     | 25,092  | 17,357  |
| ILL   | 54,226             | 23,793  | 0                           | 1         | 194     | 250     |
| IND   | 106,564            | 91,330  | 47                          | 12        | 277     | 679     |
| IOWA  | 1,648              | 7,136   | 3,193                       | 1,306     | 16,753  | 53,754  |
| KANS  | 6,598              | 1,411   | 312                         | 0         | 31,212  | 31,015  |
| KY    | 3,457              | 4,468   | 0                           | 0         | 1,649   | 2,424   |
| LA    | 188                | 717     | 202                         | 0         | 6       | 0       |
| MAINE | 0                  | 4       | 0                           | 0         | 135     | 3       |
| MD    | 436                | 578     | 0                           | 0         | 192     | 293     |
| MASS  | 163                | 303     | 42                          | 45        | 20      | 179     |
| MICH  | 4,745              | 8,237   | 0                           | 0         | 5,282   | 12,443  |
| MINN  | 1,476              | 1,338   | 3,016                       | 4,060     | 11,277  | 10,677  |
| MISS  | 1                  | 0       | 0                           | 185       | 566     | 52      |
| MO    | 1,363              | 994     | 0                           | 130       | 82      | 246     |
| MONT  | 0                  | 0       | 6,791                       | 3,227     | 495     | 3,911   |
| NEBR  | 16,710             | 1,610   | 57                          | 231       | 15,885  | 37,363  |
| NEV   | 40                 | 5,827   | 1,780                       | 703       | 611     | 929     |
| N H   | 130                | 124     | 44                          | 0         | 13      | 19      |
| N J   | 1,238              | 1,293   | 1,255                       | 870       | 2,759   | 1,086   |
| N MEX | 2,858              | 2,960   | 0                           | 0         | 2,143   | 2,598   |
| N Y   | 1,552              | 44,718  | 0                           | 0         | 1,005   | 1,107   |
| N C   | 19,131             | 18,897  | 52,210                      | 71,612    | 1,916   | 17,359  |
| N DAK | 0                  | 0       | 22                          | 10        | 2,621   | 3,120   |
| OHIO  | 6,729              | 5,175   | 138                         | 479       | 2,646   | 4,861   |
| OKLA  | 1,985              | 48      | 500                         | 0         | 120     | 25      |
| OREG  | 31,747             | 39,147  | 9,921                       | 8,004     | 7,419   | 5,792   |
| PA    | 3,278              | 913     | 0                           | 0         | 374     | 302     |
| R I   | 3                  | 0       | 0                           | 0         | 0       | 0       |
| S C   | 6,252              | 5,549   | 5,398                       | 3,927     | 601     | 1,381   |
| S DAK | 531                | 1,702   | 0                           | 0         | 4,615   | 4,875   |
| TENN  | 2,273              | 2,858   | 52                          | 30        | 1,149   | 1,091   |
| TEX   | 8,667              | 15,655  | 0                           | 0         | 244     | 19      |
| UTAH  | 6,716              | 5,264   | 181                         | 2         | 227     | 82      |
| VT    | 1,704              | 1,826   | 0                           | 0         | 55      | 0       |
| VA    | 8,977              | 6,473   | 19,740                      | 24,839    | 1,158   | 3,016   |
| WASH  | 44,264             | 72,123  | 9,203                       | 8,615     | 17,359  | 18,080  |
| W VA  | 5,804              | 7,068   | 0                           | 0         | 28      | 34      |
| WIS   | 533                | 3,006   | 899                         | 933       | 15,515  | 7,137   |
| WYO   | 553                | 625     | 13                          | 0         | 600     | 296     |
| P R   | 0                  | 3       | 0                           | 0         | 0       | 0       |
| TOTAL | 475,135            | 499,804 | 1,486,582                   | 1,606,633 | 390,059 | 472,990 |

TABLE 7 -- DIRECT APPLICATION PHOSPHATE MATERIALS CONSUMPTION,  
YEARS ENDED JUNE 30, 1978, AND 1979

| STATE            | PHOSPHATE ROCK<br>1/ |        | SUPERPHOSPHATES    |        |                 |           | AMMONIUM PHOSPHATES<br>2/ |         | OTHER PHOSPHATES |         |
|------------------|----------------------|--------|--------------------|--------|-----------------|-----------|---------------------------|---------|------------------|---------|
|                  |                      |        | 22 PERCENT & UNDER |        | OVER 22 PERCENT |           |                           |         |                  |         |
|                  | 1978                 | 1979   | 1978               | 1979   | 1978            | 1979      | 1978                      | 1979    | 1978             | 1979    |
| ----- TONS ----- |                      |        |                    |        |                 |           |                           |         |                  |         |
| ALA              | 0                    | 0      | 6,279              | 4,829  | 300             | 9,970     | 173                       | 54      | 44,320           | 23,130  |
| ALAS             | 0                    | 0      | 0                  | 0      | 45              | 0         | 0                         | 55      | 0                | 0       |
| ARIZ             | 0                    | 0      | 293                | 484    | 2,962           | 2,396     | 30,356                    | 36,655  | 1,444            | 5,799   |
| ARK              | 88                   | 0      | 253                | 222    | 6,987           | 7,601     | 880                       | 1,273   | 3                | 2       |
| CALIF            | 5,760                | 6,731  | 36,333             | 28,502 | 33,882          | 32,393    | 227,888                   | 181,771 | 12,552           | 16,894  |
| COLO             | 52                   | 75     | 11                 | 10     | 6,252           | 9,756     | 10,017                    | 7,545   | 1,821            | 247     |
| CONN             | 4                    | 4      | 94                 | 94     | 437             | 427       | 1,697                     | 1,697   | 2,580            | 2,469   |
| DEL              | 0                    | 0      | 18                 | 0      | 2,345           | 2,541     | 0                         | 0       | 31               | 33      |
| D C              | 0                    | 0      | 0                  | 1      | 0               | 9         | 0                         | 0       | 25               | 0       |
| FLA              | 2,163                | 1,531  | 7,795              | 10,557 | 139             | 1         | 2,262                     | 2,090   | 11,311           | 9,791   |
| GA               | 0                    | 0      | 2,582              | 4,649  | 5,745           | 6,291     | 13,001                    | 28,839  | 22,005           | 22,427  |
| HAW              | 1,358                | 1,041  | 201                | 0      | 5,916           | 5,416     | 210                       | 1,024   | 4,770            | 6,657   |
| IDAHO            | 0                    | 0      | 0                  | 111    | 22,023          | 21,317    | 40,257                    | 25,193  | 9,452            | 4,705   |
| ILL              | 0                    | 0      | 769                | 1,043  | 211,029         | 252,379   | 689                       | 475     | 164              | 9,000   |
| IND              | 77                   | 751    | 688                | 41     | 78,008          | 76,814    | 0                         | 0       | 33               | 0       |
| IOWA             | 11,102               | 2,049  | 4,062              | 1,561  | 136,218         | 158,932   | 1,100                     | 1,402   | 2,419            | 444     |
| KANS             | 0                    | 0      | 1,483              | 1,629  | 18,269          | 26,100    | 4,953                     | 5,071   | 832              | 295     |
| KY               | 135                  | 0      | 1,403              | 175    | 49,480          | 58,051    | 59                        | 2       | 27               | 34      |
| LA               | 0                    | 0      | 221                | 147    | 2,869           | 1,623     | 341                       | 165     | 2,385            | 2,909   |
| MAINE            | 0                    | 0      | 0                  | 71     | 208             | 142       | 1,206                     | 0       | 26               | 37      |
| MD               | 0                    | 0      | 156                | 137    | 11,051          | 10,676    | 0                         | 0       | 38               | 0       |
| MASS             | 1                    | 14     | 176                | 150    | 337             | 387       | 6                         | 0       | 97               | 181     |
| MICH             | 47                   | 322    | 125                | 341    | 22,469          | 21,021    | 73                        | 193     | 138              | 101     |
| MINN             | 806                  | 1,210  | 32                 | 15     | 74,211          | 93,366    | 3,698                     | 20,664  | 3,845            | 6,163   |
| MISS             | 0                    | 0      | 1,139              | 1,347  | 15,163          | 6,224     | 0                         | 12      | 19,338           | 20,749  |
| MO               | 1                    | 1      | 6                  | 23     | 1,569           | 3,636     | 41                        | 23      | 1,285            | 45      |
| MONT             | 0                    | 0      | 0                  | 0      | 10,083          | 7,977     | 21,777                    | 16,626  | 291              | 824     |
| NEBR             | 0                    | 0      | 920                | 2,942  | 40,942          | 46,835    | 11,774                    | 10,740  | 1                | 0       |
| NEV              | 0                    | 0      | 11                 | 168    | 613             | 555       | 4,527                     | 3,353   | 9                | 15      |
| N H              | 5                    | 29     | 83                 | 0      | 501             | 257       | 109                       | 21      | 34               | 65      |
| N J              | 3                    | 0      | 46                 | 45     | 926             | 1,401     | 416                       | 64      | 530              | 287     |
| N MEX            | 0                    | 0      | 525                | 20     | 12,198          | 15,963    | 5,724                     | 7,342   | 0                | 14      |
| N Y              | 560                  | 393    | 517                | 1,836  | 6,683           | 9,625     | 27                        | 0       | 557              | 24,640  |
| N C              | 50                   | 0      | 9,267              | 11,911 | 5,767           | 7,729     | 0                         | 100     | 1,433            | 6,230   |
| N DAK            | 0                    | 0      | 0                  | 0      | 15,907          | 19,614    | 1,949                     | 4,029   | 1,847            | 598     |
| OHIO             | 765                  | 1,023  | 1,210              | 891    | 82,180          | 100,328   | 14                        | 10      | 279              | 461     |
| OKLA             | 0                    | 194    | 481                | 595    | 16,277          | 27,658    | 7,791                     | 6,079   | 8,277            | 3,095   |
| OREG             | 59                   | 64     | 4,608              | 5,858  | 3,831           | 3,539     | 76,083                    | 65,269  | 3,577            | 2,535   |
| PA               | 927                  | 1,657  | 350                | 360    | 12,612          | 9,394     | 17,358                    | 13,928  | 263              | 1,718   |
| R I              | 0                    | 0      | 1                  | 6      | 35              | 52        | 228                       | 894     | 2                | 48      |
| S C              | 199                  | 0      | 374                | 586    | 2,878           | 2,788     | 2,287                     | 1,733   | 5,701            | 7,286   |
| S DAK            | 178                  | 23     | 433                | 68     | 13,880          | 14,659    | 249                       | 507     | 3,567            | 4,391   |
| TENN             | 0                    | 0      | 349                | 0      | 34,404          | 43,106    | 0                         | 0       | 4                | 0       |
| TEX              | 0                    | 0      | 4,433              | 1,121  | 12,981          | 12,320    | 100,153                   | 80,256  | 1,281            | 33,965  |
| UTAH             | 502                  | 0      | 1,624              | 1,351  | 23,441          | 17,681    | 3,652                     | 4,200   | 1,718            | 80      |
| VT               | 0                    | 0      | 0                  | 0      | 498             | 1,366     | 0                         | 0       | 1                | 0       |
| VA               | 5                    | 51     | 1,603              | 249    | 3,708           | 4,271     | 1,516                     | 3,805   | 143              | 241     |
| WASH             | 28                   | 13     | 667                | 1,032  | 8,565           | 8,692     | 52,584                    | 42,955  | 2,490            | 1,758   |
| W VA             | 0                    | 0      | 0                  | 0      | 5,082           | 4,753     | 0                         | 0       | 5                | 5,450   |
| WIS              | 420                  | 256    | 14,922             | 2,293  | 61,724          | 61,063    | 136                       | 33      | 4,748            | 21,874  |
| WYO              | 0                    | 0      | 0                  | 0      | 2,111           | 3,746     | 2,481                     | 427     | 812              | 1,514   |
| P R              | 0                    | 0      | 0                  | 0      | 0               | 2         | 0                         | 200     | 0                | 0       |
| TOTAL            | 25,313               | 17,442 | 106,583            | 87,579 | 1,086,741       | 1,232,923 | 657,742                   | 576,774 | 178,511          | 249,201 |

1/ INCLUDES COLLOIDAL PHOSPHATE. 2/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0.

TABLE 8 -- DIRECT APPLICATION POTASH AND NATURAL ORGANIC MATERIALS CONSUMPTION,  
YEARS ENDED JUNE 30, 1978, AND 1979

| STATE | POTASH MATERIALS              |           |         |         | NATURAL ORGANICS |         |
|-------|-------------------------------|-----------|---------|---------|------------------|---------|
|       | CHLORIDE 50-62 PERCENT GRADES |           | OTHER   |         | 1978             | 1979    |
|       | 1978                          | 1979      | 1978    | 1979    |                  |         |
|       | ----- TONS -----              |           |         |         |                  |         |
| ALA   | 19,462                        | 18,820    | 6,249   | 11,705  | 3,736            | 4,697   |
| ALAS  | 10                            | 100       | 10      | 10      | 0                | 0       |
| ARIZ  | 1,719                         | 381       | 50      | 0       | 650              | 650     |
| ARK   | 25,487                        | 22,305    | 456     | 1,359   | 1,294            | 2,154   |
| CALIF | 19,190                        | 16,281    | 34,120  | 7,453   | 149,156          | 121,554 |
| COLO  | 10,434                        | 11,530    | 4,846   | 5,028   | 1,858            | 3,267   |
| CONN  | 2,507                         | 2,507     | 59      | 64      | 8,265            | 8,263   |
| DEL   | 12,494                        | 12,936    | 2       | 27      | 480              | 593     |
| D C   | 0                             | 89        | 20      | 35      | 460              | 1,377   |
| FLA   | 24,290                        | 20,893    | 52,939  | 60,255  | 25,573           | 26,331  |
| GA    | 22,150                        | 23,482    | 20,837  | 28,065  | 8,238            | 8,369   |
| HAW   | 4,869                         | 18,223    | 6,853   | 1,361   | 2                | 0       |
| IDAHO | 6,769                         | 9,405     | 21,018  | 5,219   | 0                | 0       |
| ILL   | 896,150                       | 1,058,392 | 1,879   | 2,691   | 4,552            | 4,906   |
| IND   | 366,311                       | 423,809   | 31,971  | 33,608  | 63               | 0       |
| IOWA  | 590,613                       | 891,075   | 1,647   | 1,054   | 2,831            | 801     |
| KANS  | 54,613                        | 64,006    | 0       | 0       | 1,025            | 800     |
| KY    | 128,703                       | 144,163   | 17,982  | 19,412  | 2,681            | 410     |
| LA    | 6,737                         | 7,538     | 19,017  | 26,867  | 3,773            | 4,194   |
| MAINE | 1,722                         | 2,016     | 320     | 134     | 1,859            | 2,020   |
| MO    | 29,240                        | 33,549    | 901     | 1,324   | 877              | 4,379   |
| MASS  | 2,497                         | 2,455     | 171     | 300     | 8,136            | 3,837   |
| MICH  | 204,685                       | 227,124   | 4,255   | 5,156   | 14,709           | 14,624  |
| MINN  | 501,603                       | 648,755   | 4,143   | 5,052   | 1,844            | 2,473   |
| MISS  | 20,417                        | 19,692    | 0       | 4       | 385              | 330     |
| MO    | 16,293                        | 29,718    | 2,725   | 3,703   | 7,116            | 2,202   |
| MONT  | 7,188                         | 0         | 0       | 15,020  | 0                | 0       |
| NEBR  | 62,092                        | 65,849    | 74,404  | 72,192  | 1,352            | 800     |
| NEV   | 12                            | 2         | 35      | 69      | 2,067            | 1,503   |
| N H   | 1,391                         | 1,581     | 22      | 31      | 1,066            | 1,716   |
| N J   | 6,025                         | 5,278     | 289     | 612     | 6,584            | 10,508  |
| N MEX | 520                           | 671       | 3,277   | 4,651   | 3,002            | 2,439   |
| N Y   | 26,941                        | 12,659    | 5,282   | 6,495   | 13,013           | 8,161   |
| N C   | 13,011                        | 19,197    | 18,409  | 18,900  | 20,011           | 4,765   |
| N DAK | 20,272                        | 24,311    | 0       | 0       | 857              | 1,009   |
| OHIO  | 335,598                       | 430,408   | 3,575   | 4,327   | 13,251           | 11,852  |
| OKLA  | 25,576                        | 35,543    | 1,721   | 4,561   | 6,595            | 6,491   |
| OREG  | 33,293                        | 26,620    | 6,714   | 6,735   | 1,039            | 1,349   |
| PA    | 35,019                        | 29,041    | 809     | 2,061   | 9,325            | 11,476  |
| R I   | 270                           | 391       | 0       | 0       | 3,161            | 1,501   |
| S C   | 14,663                        | 14,596    | 9,636   | 10,114  | 1,916            | 3,217   |
| S DAK | 18,958                        | 20,279    | 70      | 189     | 119              | 198     |
| TENN  | 114,718                       | 127,696   | 4,471   | 3,660   | 928              | 1,334   |
| TEX   | 8,614                         | 7,574     | 9,148   | 11,005  | 34,030           | 20,866  |
| UTAH  | 3,425                         | 729       | 80      | 0       | 525              | 0       |
| VT    | 2,609                         | 3,201     | 0       | 0       | 1,560            | 0       |
| VA    | 13,868                        | 14,449    | 1,666   | 2,565   | 1,853            | 3,788   |
| WASH  | 40,304                        | 34,567    | 7,150   | 8,448   | 17,205           | 16,890  |
| W VA  | 5,704                         | 6,600     | 242     | 71      | 1,005            | 1,162   |
| WIS   | 522,870                       | 467,583   | 12,792  | 9,801   | 13,614           | 10,348  |
| WYO   | 2,590                         | 545       | 126     | 240     | 25               | 21      |
| P R   | 0                             | 2         | 440     | 220     | 87               | 0       |
| TOTAL | 4,284,496                     | 5,059,416 | 400,828 | 401,853 | 403,753          | 339,625 |

TABLE 9 -- PRIMARY PLANT NUTRIENT CONSUMPTION BY KIND OF FERTILIZER,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/--CONTINUED

| YEARS ENDED JUNE 30, 1978 AND 1979 1/2--CONTINUED |   |            |                      |           |           |           |            |            |  |
|---|---|------------|----------------------|-----------|-----------|-----------|------------|------------|--|
| STATE   | MIXTURES AND DIRECT APPLICATION MATERIALS |            |                      |           |           |           |            |            | 1979 AS<br>PERCENT<br>OF 1978<br>PERCENT |
|   | N   |            | AVAILABLE P O<br>2 5 |           | K O<br>2  |           | TOTAL      |            |  |
|   | 1978                                      | 1979       | 1978                 | 1979      | 1978      | 1979      | 1978       | 1979       |  |
| NUTRIENT TONS                                     |   |            |                      |           |           |           |            |            |  |
| ALA   | 161,706                                   | 151,536    | 108,567              | 112,743   | 127,476   | 137,743   | 398,149    | 402,422    | 101                                      |
| ALAS  | 1,019                                     | 1,062      | 872                  | 747       | 623       | 462       | 2,514      | 2,271      | 90                                       |
| ARIZ  | 93,804                                    | 92,995     | 29,604               | 35,335    | 1,801     | 3,621     | 125,209    | 131,951    | 105                                      |
| ARK   | 135,042                                   | 141,154    | 66,077               | 69,119    | 86,118    | 85,419    | 287,237    | 295,691    | 103                                      |
| CALIF   | 544,715                                   | 484,063    | 203,530              | 166,823   | 73,631    | 58,245    | 821,880    | 709,130    | 86                                       |
| COLO  | 136,804                                   | 125,991    | 46,802               | 32,072    | 9,440     | 10,942    | 193,046    | 169,006    | 88                                       |
| CONN  | 7,780                                     | 7,556      | 5,311                | 5,284     | 5,134     | 5,136     | 18,226     | 17,976     | 99                                       |
| DEL   | 16,494                                    | 17,655     | 12,784               | 13,602    | 19,196    | 20,637    | 48,475     | 51,894     | 107                                      |
| D C   | 851                                       | 1,948      | 501                  | 751       | 395       | 741       | 1,748      | 3,441      | 197                                      |
| FLA   | 231,905                                   | 258,843    | 110,951              | 127,473   | 256,432   | 288,535   | 599,288    | 674,851    | 113                                      |
| GA  | 286,754                                   | 280,606    | 153,337              | 160,462   | 235,804   | 248,505   | 676,016    | 689,573    | 102                                      |
| HAW   | 28,785                                    | 57,289     | 29,952               | 25,789    | 23,324    | 28,224    | 82,062     | 111,302    | 136                                      |
| IDAH0   | 160,999                                   | 173,989    | 64,738               | 56,267    | 15,077    | 14,940    | 240,814    | 245,196    | 102                                      |
| ILL   | 792,588                                   | 906,122    | 454,888              | 536,952   | 662,261   | 785,320   | 1,909,737  | 2,228,394  | 117                                      |
| IND   | 504,245                                   | 481,557    | 324,000              | 329,509   | 468,423   | 535,666   | 1,296,667  | 1,346,732  | 104                                      |
| IOWA  | 921,084                                   | 1,003,638  | 423,895              | 496,700   | 458,847   | 641,864   | 1,803,826  | 2,142,203  | 119                                      |
| KANS  | 551,458                                   | 603,892    | 158,404              | 194,503   | 43,351    | 50,081    | 753,213    | 848,477    | 113                                      |
| KY  | 167,099                                   | 157,341    | 132,950              | 140,810   | 158,032   | 166,930   | 458,082    | 465,081    | 102                                      |
| LA  | 115,996                                   | 108,230    | 71,279               | 66,379    | 79,431    | 80,705    | 266,706    | 255,314    | 96                                       |
| MAINE   | 13,346                                    | 13,571     | 15,003               | 14,713    | 15,673    | 15,120    | 44,022     | 43,403     | 99                                       |
| MD  | 58,111                                    | 66,522     | 50,337               | 54,639    | 61,059    | 67,413    | 169,507    | 188,574    | 111                                      |
| MASS  | 11,501                                    | 10,275     | 7,644                | 6,220     | 8,552     | 7,530     | 27,697     | 24,025     | 87                                       |
| MICH  | 216,222                                   | 239,842    | 168,474              | 173,699   | 233,884   | 249,769   | 618,579    | 663,310    | 107                                      |
| MINN  | 491,719                                   | 612,371    | 274,678              | 331,842   | 358,038   | 439,291   | 1,124,435  | 1,383,505  | 123                                      |
| MISS  | 168,470                                   | 150,784    | 77,609               | 73,941    | 92,010    | 94,931    | 330,088    | 319,656    | 95                                       |
| MO  | 308,592                                   | 360,095    | 167,802              | 209,614   | 218,608   | 286,046   | 695,002    | 855,755    | 123                                      |
| MONT  | 53,982                                    | 76,382     | 55,816               | 78,997    | 5,298     | 10,292    | 119,097    | 165,671    | 139                                      |
| NEBR  | 733,774                                   | 752,313    | 160,434              | 176,145   | 63,811    | 68,789    | 958,019    | 997,246    | 104                                      |
| NEV   | 5,423                                     | 5,662      | 1,818                | 2,084     | 242       | 191       | 7,483      | 7,937      | 106                                      |
| N H   | 3,139                                     | 3,436      | 2,580                | 2,548     | 3,278     | 3,563     | 8,997      | 9,547      | 106                                      |
| N J   | 23,225                                    | 25,025     | 17,505               | 18,848    | 20,987    | 22,011    | 61,718     | 65,884     | 107                                      |
| N MEX   | 32,263                                    | 28,421     | 16,849               | 21,357    | 2,352     | 2,656     | 51,465     | 52,435     | 102                                      |
| N Y   | 84,420                                    | 98,300     | 76,821               | 90,120    | 83,947    | 72,407    | 245,189    | 260,827    | 106                                      |
| N C   | 222,283                                   | 235,170    | 150,037              | 158,643   | 216,532   | 225,966   | 588,852    | 619,778    | 105                                      |
| N DAK   | 253,062                                   | 290,161    | 120,326              | 113,636   | 19,285    | 23,574    | 392,673    | 427,371    | 109                                      |
| OHIO  | 347,186                                   | 392,344    | 268,700              | 308,833   | 350,859   | 415,913   | 966,745    | 1,117,090  | 116                                      |
| OKLA  | 243,522                                   | 303,610    | 85,839               | 112,720   | 32,144    | 40,646    | 361,505    | 456,976    | 126                                      |
| OREG  | 122,739                                   | 132,996    | 42,123               | 47,642    | 26,787    | 24,064    | 191,648    | 204,702    | 107                                      |
| PA  | 98,158                                    | 80,938     | 91,684               | 76,123    | 90,616    | 74,653    | 280,458    | 231,714    | 83                                       |
| R I   | 1,482                                     | 1,657      | 1,336                | 1,588     | 1,107     | 1,267     | 3,924      | 4,513      | 115                                      |
| S C   | 97,376                                    | 90,095     | 66,766               | 64,905    | 115,994   | 119,692   | 280,136    | 274,692    | 98                                       |
| S DAK   | 104,551                                   | 116,079    | 60,797               | 60,837    | 15,427    | 17,209    | 180,775    | 194,126    | 107                                      |
| TENN  | 119,551                                   | 109,421    | 111,674              | 120,636   | 134,246   | 135,475   | 365,471    | 365,533    | 100                                      |
| TEX   | 685,366                                   | 732,794    | 250,847              | 289,603   | 95,244    | 116,251   | 1,031,457  | 1,138,648  | 110                                      |
| UTAH  | 27,744                                    | 29,242     | 14,801               | 13,109    | 2,559     | 866       | 45,103     | 43,218     | 96                                       |
| VT  | 6,180                                     | 7,273      | 5,517                | 6,813     | 6,469     | 7,729     | 18,166     | 21,814     | 120                                      |
| VA  | 98,675                                    | 98,393     | 72,538               | 74,207    | 90,081    | 95,463    | 261,293    | 268,062    | 103                                      |
| WASH  | 211,019                                   | 238,147    | 60,712               | 67,432    | 32,875    | 33,104    | 304,605    | 338,683    | 111                                      |
| W VA  | 8,961                                     | 7,674      | 7,889                | 8,454     | 8,747     | 7,700     | 25,597     | 23,827     | 93                                       |
| WIS   | 213,979                                   | 216,307    | 170,269              | 171,511   | 380,974   | 343,999   | 765,222    | 731,897    | 96                                       |
| WYO   | 23,874                                    | 26,872     | 11,668               | 7,435     | 1,526     | 682       | 37,068     | 34,989     | 94                                       |
| P R   | 15,554                                    | 34,872     | 6,407                | 13,529    | 12,098    | 28,119    | 34,058     | 76,520     | 225                                      |
| TOTAL   | 9,964,619                                 | 10,642,991 | 5,096,143            | 5,543,744 | 5,526,183 | 6,216,097 | 20,586,946 | 22,402,832 | 109                                      |

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.



TABLE 9 -- PRIMARY PLANT NUTRIENT CONSUMPTION BY KIND OF FERTILIZER,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/

| STATE | MIXTURES      |           |                      |           |           |           |           |            | 1979 AS<br>PERCENT<br>OF 1978<br>PERCENT |
|-------|---------------|-----------|----------------------|-----------|-----------|-----------|-----------|------------|--|
|       | N             |           | AVAILABLE P O<br>2 5 |           | K O<br>2  |           | TOTAL     |            |  |
|       | 1978          | 1979      | 1978                 | 1979      | 1978      | 1979      | 1978      | 1979       |  |
|       | NUTRIENT TONS |           |                      |           |           |           |           |            |  |
| ALA   | 57,850        | 57,695    | 102,197              | 105,028   | 114,475   | 123,370   | 274,521   | 286,092    | 104                                      |
| ALAS  | 562           | 449       | 848                  | 721       | 612       | 396       | 2,022     | 1,566      | 77                                       |
| ARIZ  | 6,659         | 7,876     | 16,550               | 19,723    | 750       | 3,390     | 23,959    | 30,988     | 129                                      |
| ARK   | 33,257        | 32,412    | 62,694               | 65,354    | 70,632    | 71,657    | 166,583   | 169,423    | 102                                      |
| CALIF | 83,657        | 66,891    | 107,418              | 81,110    | 48,749    | 42,485    | 239,824   | 190,487    | 79                                       |
| COLO  | 17,303        | 12,298    | 38,549               | 24,565    | 1,481     | 2,197     | 57,732    | 39,061     | 68                                       |
| CONN  | 5,014         | 5,017     | 3,198                | 3,220     | 3,449     | 3,448     | 11,662    | 11,685     | 100                                      |
| DEL   | 7,133         | 7,422     | 11,686               | 12,415    | 11,560    | 12,722    | 30,378    | 32,559     | 107                                      |
| D C   | 725           | 1,786     | 481                  | 719       | 386       | 654       | 1,592     | 3,160      | 198                                      |
| FLA   | 167,597       | 191,127   | 104,280              | 121,049   | 231,016   | 264,067   | 502,892   | 576,242    | 115                                      |
| GA    | 76,279        | 75,666    | 141,580              | 142,027   | 216,333   | 227,626   | 434,192   | 445,321    | 103                                      |
| HAW   | 19,423        | 15,495    | 26,677               | 22,159    | 18,972    | 16,984    | 65,072    | 54,239     | 83                                       |
| IDAH  | 17,380        | 24,197    | 39,260               | 28,111    | 848       | 6,698     | 57,489    | 69,006     | 120                                      |
| ILL   | 145,314       | 169,533   | 355,049              | 417,935   | 123,118   | 148,650   | 627,480   | 736,118    | 117                                      |
| IND   | 101,115       | 100,726   | 288,441              | 294,497   | 239,088   | 271,298   | 628,644   | 666,521    | 106                                      |
| IOWA  | 146,605       | 172,565   | 358,243              | 425,766   | 97,842    | 102,568   | 602,690   | 700,899    | 116                                      |
| KANS  | 55,078        | 66,841    | 148,312              | 161,089   | 10,576    | 11,674    | 213,966   | 259,604    | 121                                      |
| KY    | 52,739        | 54,605    | 110,142              | 114,413   | 72,229    | 71,118    | 235,110   | 240,136    | 102                                      |
| LA    | 41,344        | 38,157    | 69,204               | 64,506    | 73,157    | 73,347    | 183,705   | 176,010    | 96                                       |
| MAINE | 11,455        | 11,727    | 14,397               | 14,584    | 14,530    | 13,831    | 40,382    | 40,142     | 99                                       |
| MD    | 28,967        | 28,947    | 45,323               | 49,757    | 42,829    | 46,270    | 117,119   | 124,974    | 107                                      |
| MASS  | 9,818         | 8,459     | 7,246                | 5,857     | 6,768     | 5,907     | 23,833    | 20,224     | 85                                       |
| MICH  | 70,118        | 69,581    | 157,638              | 163,436   | 109,041   | 111,210   | 336,798   | 344,227    | 102                                      |
| MINN  | 95,538        | 108,230   | 238,085              | 276,536   | 55,303    | 48,270    | 388,926   | 433,035    | 111                                      |
| MISS  | 33,338        | 31,512    | 68,517               | 68,882    | 79,559    | 82,916    | 181,414   | 183,309    | 101                                      |
| MO    | 165,247       | 190,835   | 166,436              | 207,932   | 207,963   | 267,326   | 539,646   | 666,093    | 123                                      |
| MONT  | 20,050        | 27,475    | 49,526               | 70,794    | 986       | 1,325     | 70,561    | 99,594     | 141                                      |
| NEBR  | 52,348        | 57,255    | 138,652              | 151,839   | 10,654    | 12,143    | 201,654   | 221,236    | 110                                      |
| NEV   | 594           | 666       | 398                  | 990       | 193       | 162       | 1,185     | 1,817      | 153                                      |
| N H   | 2,466         | 2,639     | 2,259                | 2,366     | 2,419     | 2,546     | 7,143     | 7,550      | 106                                      |
| N J   | 17,778        | 18,991    | 16,620               | 17,789    | 17,142    | 18,328    | 51,541    | 55,109     | 107                                      |
| N MEX | 4,440         | 5,422     | 9,951                | 12,563    | 1,153     | 1,023     | 15,584    | 19,008     | 122                                      |
| N Y   | 50,071        | 45,200    | 73,177               | 68,617    | 66,027    | 62,921    | 189,275   | 176,738    | 93                                       |
| N C   | 83,274        | 87,695    | 144,466              | 150,374   | 205,594   | 211,032   | 433,334   | 449,102    | 104                                      |
| N DAK | 44,312        | 43,144    | 111,434              | 103,266   | 7,087     | 8,957     | 162,833   | 155,367    | 95                                       |
| OHIO  | 57,226        | 107,831   | 230,900              | 262,891   | 146,118   | 153,298   | 474,244   | 524,019    | 110                                      |
| OKLA  | 33,757        | 43,662    | 71,981               | 56,585    | 16,329    | 18,228    | 122,067   | 158,475    | 130                                      |
| OREG  | 12,430        | 17,383    | 19,750               | 27,492    | 4,768     | 5,617     | 36,948    | 50,493     | 137                                      |
| PA    | 52,544        | 40,985    | 76,776               | 63,492    | 68,864    | 56,144    | 198,184   | 160,622    | 81                                       |
| R I   | 1,097         | 1,107     | 1,137                | 1,038     | 878       | 1,011     | 3,111     | 3,157      | 101                                      |
| S C   | 30,307        | 28,336    | 62,170               | 60,150    | 105,075   | 107,027   | 197,552   | 195,513    | 99                                       |
| S DAK | 25,884        | 25,242    | 51,858               | 50,913    | 4,010     | 4,971     | 81,752    | 81,127     | 99                                       |
| TENN  | 44,495        | 46,508    | 95,753               | 100,776   | 62,122    | 55,807    | 202,370   | 203,091    | 100                                      |
| TEX   | 200,744       | 242,730   | 221,765              | 260,831   | 86,596    | 107,770   | 509,105   | 611,331    | 120                                      |
| UTAH  | 2,245         | 2,199     | 2,086                | 1,903     | 446       | 421       | 4,777     | 4,523      | 95                                       |
| VT    | 4,187         | 4,865     | 5,262                | 6,185     | 4,856     | 5,808     | 14,305    | 16,858     | 118                                      |
| VA    | 48,388        | 48,053    | 69,689               | 70,188    | 81,227    | 86,073    | 199,304   | 204,315    | 103                                      |
| WASH  | 20,475        | 24,450    | 41,682               | 52,902    | 4,838     | 7,986     | 66,994    | 85,379     | 127                                      |
| W VA  | 3,313         | 2,503     | 5,609                | 3,819     | 5,237     | 3,700     | 14,159    | 10,022     | 71                                       |
| WIS   | 55,275        | 54,081    | 135,472              | 133,460   | 62,727    | 60,013    | 253,474   | 247,554    | 98                                       |
| WYO   | 3,760         | 2,015     | 9,235                | 4,784     | 71        | 37        | 13,065    | 6,836      | 52                                       |
| P R   | 14,024        | 32,680    | 6,402                | 13,423    | 11,890    | 28,013    | 32,317    | 74,116     | 229                                      |
| TOTAL | 2,374,999     | 2,563,209 | 4,340,900            | 4,710,820 | 2,828,573 | 3,050,041 | 9,544,471 | 10,324,071 | 108                                      |

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.

TABLE 10 -- NITROGEN CONTENT OF DIRECT APPLICATION MATERIALS CONSUMED,  
YEAR ENDED JUNE 30, 1979

| STATE | AMMONIA   |        | AMMONIUM |         | NITROGEN<br>SOLUTIONS | SODIUM<br>NITRATE | UREA    | AMMONIUM<br>NITRATE-<br>LIMESTONE | PHOSPHATE<br>MATERIALS | NATURAL<br>ORGANICS | OTHER<br>NITROGEN<br>MATERIALS |
|-------|-----------|--------|----------|---------|-----------------------|-------------------|---------|-----------------------------------|------------------------|---------------------|--------------------------------|
|       | ANHYDROUS | AQUA   | NITRATE  | SULFATE |                       |                   |         |                                   |                        |                     |                                |
|       |           |        |          |         | NUTRIENT TONS         |                   |         |                                   |                        |                     |                                |
| ALA   | 13,341    | 470    | 59,378   | 0       | 18,182                | 213               | 1,487   | 57                                | 10                     | 78                  | 1,024                          |
| ALAS  | 0         | 0      | 158      | 0       | 0                     | 0                 | 410     | 0                                 | 6                      | 0                   | 0                              |
| ARIZ  | 32,107    | 4,661  | 1,871    | 1,717   | 24,874                | 0                 | 13,253  | 1,075                             | 5,264                  | 35                  | 262                            |
| ARK   | 5,153     | 11     | 19,097   | 0       | 7,358                 | 233               | 74,448  | 2                                 | 202                    | 56                  | 2,182                          |
| CALIF | 121,016   | 51,169 | 28,301   | 46,978  | 92,429                | 436               | 29,871  | 317                               | 29,471                 | 2,369               | 14,814                         |
| CGLO  | 57,144    | 42     | 21,340   | 4,837   | 24,935                | 0                 | 4,259   | 0                                 | 850                    | 66                  | 221                            |
| CONN  | 0         | 0      | 37       | 0       | 0                     | 7                 | 1,685   | 0                                 | 187                    | 223                 | 401                            |
| DEL   | 857       | 0      | 736      | 439     | 7,291                 | 6                 | 881     | 0                                 | 1                      | 14                  | 9                              |
| D C   | 0         | 0      | 34       | 0       | 28                    | 0                 | 60      | 0                                 | 0                      | 28                  | 13                             |
| FLA   | 6,743     | 0      | 24,925   | 1,469   | 21,697                | 231               | 2,497   | 159                               | 812                    | 1,072               | 8,113                          |
| GA    | 27,179    | 1      | 47,218   | 755     | 122,061               | 728               | 704     | 16                                | 4,390                  | 212                 | 1,673                          |
| HAW   | 28,110    | 413    | 239      | 325     | 3,006                 | 4                 | 9,548   | 0                                 | 128                    | 0                   | 21                             |
| IDAH  | 53,812    | 1,469  | 22,921   | 23,469  | 19,401                | 0                 | 18,233  | 0                                 | 3,949                  | 0                   | 6,538                          |
| ILL   | 465,410   | 0      | 16,985   | 1,016   | 186,875               | 0                 | 60,526  | 0                                 | 1,106                  | 248                 | 4,420                          |
| IND   | 193,861   | 423    | 624      | 2,707   | 129,110               | 0                 | 12,173  | 2                                 | 0                      | 0                   | 41,920                         |
| IOWA  | 534,363   | 0      | 25,910   | 1,739   | 156,992               | 0                 | 110,152 | 1                                 | 340                    | 43                  | 1,535                          |
| KANS  | 358,192   | 25     | 59,515   | 559     | 83,323                | 0                 | 34,398  | 0                                 | 825                    | 43                  | 170                            |
| KY    | 27,891    | 0      | 42,417   | 230     | 13,514                | 164               | 17,305  | 2                                 | 0                      | 17                  | 1,197                          |
| LA    | 21,854    | 62     | 28,488   | 4,501   | 5,138                 | 75                | 9,528   | 0                                 | 26                     | 109                 | 292                            |
| MAINE | 0         | 0      | 527      | 3       | 0                     | 0                 | 1,262   | 0                                 | 1                      | 50                  | 1                              |
| MD    | 8,183     | 0      | 2,671    | 373     | 19,373                | 164               | 6,446   | 0                                 | 0                      | 101                 | 266                            |
| MASS  | 3         | 0      | 117      | 5       | 150                   | 10                | 1,304   | 0                                 | 4                      | 125                 | 98                             |
| MICH  | 91,410    | 364    | 8,375    | 1,453   | 30,764                | 124               | 35,742  | 0                                 | 40                     | 504                 | 1,487                          |
| MINN  | 338,872   | 753    | 7,189    | 1,509   | 47,627                | 0                 | 103,722 | 3                                 | 4,149                  | 144                 | 173                            |
| MISS  | 35,068    | 0      | 51,012   | 0       | 11,749                | 867               | 20,555  | 0                                 | 2                      | 18                  | 1                              |
| MO    | 86,324    | 0      | 32,442   | 4       | 28,629                | 29                | 21,411  | 36                                | 4                      | 119                 | 262                            |
| MONT  | 5,392     | 0      | 22,139   | 1,148   | 1,720                 | 0                 | 15,677  | 53                                | 2,778                  | 0                   | 0                              |
| NEBH  | 500,786   | 582    | 34,942   | 1,836   | 129,504               | 0                 | 25,077  | 0                                 | 1,715                  | 43                  | 573                            |
| NEV   | 726       | 0      | 337      | 808     | 593                   | 0                 | 237     | 1                                 | 518                    | 34                  | 1,742                          |
| N H   | 0         | 0      | 95       | 36      | 0                     | 0                 | 593     | 0                                 | 6                      | 47                  | 21                             |
| N J   | 134       | 2      | 1,006    | 62      | 1,484                 | 121               | 2,521   | 3                                 | 30                     | 306                 | 364                            |
| N MEX | 12,690    | 12     | 578      | 850     | 5,017                 | 0                 | 2,259   | 0                                 | 1,160                  | 56                  | 378                            |
| N Y   | 9,707     | 0      | 4,505    | 204     | 14,839                | 2,483             | 4,333   | 11                                | 19                     | 314                 | 16,686                         |
| N C   | 12,073    | 28     | 18,408   | 411     | 102,839               | 5,511             | 891     | 28                                | 41                     | 159                 | 7,085                          |
| N DAK | 184,070   | 0      | 7,425    | 468     | 18,655                | 0                 | 35,790  | 0                                 | 587                    | 23                  | 0                              |
| OHIO  | 122,966   | 5      | 4,632    | 3,012   | 85,926                | 25                | 63,773  | 1                                 | 6                      | 345                 | 3,822                          |
| OKLA  | 464,317   | 0      | 46,507   | 763     | 19,282                | 24                | 27,326  | 0                                 | 1,308                  | 407                 | 12                             |
| OREG  | 17,852    | 4,994  | 6,861    | 13,870  | 17,366                | 0                 | 33,245  | 0                                 | 9,920                  | 33                  | 11,472                         |
| PA    | 2,931     | 7      | 1,137    | 1,174   | 13,417                | 10                | 18,870  | 1                                 | 1,742                  | 475                 | 188                            |
| R I   | 0         | 0      | 11       | 0       | 0                     | 2                 | 309     | 0                                 | 189                    | 39                  | 0                              |
| S C   | 2,872     | 32     | 9,725    | 304     | 44,890                | 1,151             | 440     | 0                                 | 917                    | 81                  | 1,348                          |
| S DAK | 33,170    | 385    | 16,831   | 222     | 16,744                | 0                 | 22,969  | 51                                | 58                     | 2                   | 406                            |
| TENN  | 9,105     | 0      | 31,132   | 0       | 9,378                 | 217               | 12,573  | 0                                 | 0                      | 65                  | 443                            |
| TEX   | 260,175   | 1,557  | 80,331   | 23,696  | 68,555                | 0                 | 30,438  | 0                                 | 18,829                 | 545                 | 5,938                          |
| UTAH  | 4,453     | 0      | 11,424   | 5,792   | 726                   | 0                 | 2,347   | 0                                 | 583                    | 0                   | 1,719                          |
| VT    | 0         | 0      | 110      | 0       | 492                   | 0                 | 1,219   | 0                                 | 0                      | 0                   | 586                            |
| VA    | 98        | 0      | 4,295    | 187     | 41,147                | 571               | 1,841   | 8                                 | 430                    | 97                  | 1,666                          |
| WASH  | 68,428    | 28,728 | 15,162   | 7,019   | 37,171                | 0                 | 31,395  | 0                                 | 6,776                  | 415                 | 18,563                         |
| W VA  | 0         | 0      | 1,576    | 0       | 7                     | 26                | 1,422   | 0                                 | 0                      | 23                  | 2,117                          |
| WIS   | 75,533    | 933    | 9,006    | 1,261   | 35,694                | 0                 | 38,875  | 0                                 | 6                      | 439                 | 559                            |
| WYO   | 9,251     | 0      | 10,517   | 65      | 3,910                 | 0                 | 742     | 0                                 | 187                    | 0                   | 85                             |
| P R   | 123       | 1,435  | 0        | 574     | 0                     | 0                 | 17      | 0                                 | 42                     | 0                   | 1                              |
| TOTAL | 4,003,845 | 98,563 | 841,272  | 157,846 | 1,723,860             | 13,431            | 967,040 | 1,825                             | 99,610                 | 9,625               | 162,864                        |

TABLE 11 -- AVAILABLE P<sub>2</sub>O<sub>5</sub> CONTENT OF DIRECT APPLICATION MATERIALS CONSUMED,  
2 5  
YEAR ENDED JUNE 30, 1979

| STATE                     | AMMONIUM<br>PHOSPHATES 1/ | PHOSPHORIC<br>SOLUTIONS | PHOSPHATE<br>ROCK 2/ | SUPERPHOSPHATES |          | NATURAL<br>ORGANICS | OTHER<br>PHOSPHATE<br>MATERIALS |
|---------------------------|---------------------------|-------------------------|----------------------|-----------------|----------|---------------------|---------------------------------|
|                           |                           |                         |                      | 22% & UNDER     | OVER 22% |                     |                                 |
| ----- NUTRIENT TONS ----- |                           |                         |                      |                 |          |                     |                                 |
| ALA                       | 16                        | 0                       | 0                    | 966             | 4,580    | 93                  | 2,060                           |
| ALAS                      | 26                        | 0                       | 0                    | 0               | 0        | 0                   | 0                               |
| ARIZ                      | 10,697                    | 3,660                   | 0                    | 97              | 1,126    | 31                  | 1                               |
| ARK                       | 268                       | 0                       | 0                    | 44              | 3,411    | 41                  | 1                               |
| CALIF                     | 53,501                    | 3,075                   | 202                  | 5,677           | 15,119   | 1,874               | 6,261                           |
| CCLO                      | 3,520                     | 0                       | 2                    | 2               | 3,902    | 50                  | 30                              |
| CONN                      | 815                       | 0                       | 0                    | 19              | 171      | 198                 | 862                             |
| DEL                       | 0                         | 0                       | 0                    | 0               | 1,169    | 9                   | 9                               |
| D C                       | 0                         | 0                       | 0                    | 0               | 4        | 28                  | 0                               |
| FLA                       | 1,068                     | 0                       | 45                   | 2,111           | 1        | 907                 | 2,272                           |
| GA                        | 12,490                    | 1                       | 0                    | 929             | 2,866    | 151                 | 1,997                           |
| HAW                       | 498                       | 55                      | 31                   | 0               | 2,448    | 0                   | 597                             |
| IDAH                      | 5,457                     | 0                       | 0                    | 23              | 9,593    | 0                   | 3,044                           |
| ILL                       | 224                       | 0                       | 0                    | 191             | 113,772  | 222                 | 4,608                           |
| IND                       | 0                         | 0                       | 23                   | 8               | 34,981   | 0                   | 0                               |
| IOWA                      | 705                       | 0                       | 46                   | 293             | 69,609   | 38                  | 228                             |
| KANS                      | 1,146                     | 0                       | 0                    | 326             | 11,745   | 38                  | 159                             |
| KY                        | 1                         | 0                       | 0                    | 35              | 26,342   | 15                  | 4                               |
| LA                        | 33                        | 745                     | 0                    | 28              | 747      | 80                  | 236                             |
| MAINE                     | 0                         | 0                       | 0                    | 14              | 64       | 40                  | 10                              |
| MD                        | 0                         | 0                       | 0                    | 27              | 4,785    | 70                  | 0                               |
| MASS                      | 0                         | 0                       | 0                    | 30              | 177      | 105                 | 51                              |
| MICH                      | 84                        | 2                       | 10                   | 68              | 9,645    | 429                 | 26                              |
| MINN                      | 9,436                     | 4,355                   | 24                   | 3               | 41,378   | 110                 | 0                               |
| MISS                      | 2                         | 0                       | 0                    | 269             | 2,925    | 15                  | 1,847                           |
| MO                        | 5                         | 4                       | 0                    | 5               | 1,562    | 106                 | 1                               |
| MONT                      | 4,164                     | 485                     | 0                    | 0               | 3,550    | 0                   | 1                               |
| NEBR                      | 2,168                     | 0                       | 0                    | 588             | 21,512   | 38                  | 0                               |
| NEV                       | 773                       | 1                       | 0                    | 34              | 250      | 35                  | 1                               |
| N H                       | 11                        | 0                       | 1                    | 2               | 118      | 34                  | 17                              |
| N J                       | 31                        | 0                       | 0                    | 9               | 671      | 258                 | 90                              |
| N MEX                     | 1,501                     | 6                       | 0                    | 4               | 7,183    | 39                  | 0                               |
| N Y                       | 0                         | 17,203                  | 8                    | 344             | 3,409    | 262                 | 278                             |
| N C                       | 48                        | 0                       | 0                    | 2,382           | 3,507    | 113                 | 2,219                           |
| N DAK                     | 1,135                     | 415                     | 0                    | 0               | 8,796    | 16                  | 0                               |
| OHIO                      | 5                         | 55                      | 22                   | 178             | 45,338   | 253                 | 90                              |
| OKLA                      | 1,437                     | 0                       | 11                   | 119             | 12,723   | 175                 | 1,671                           |
| OREG                      | 16,046                    | 1,424                   | 2                    | 1,054           | 1,593    | 12                  | 19                              |
| PA                        | 6,683                     | 0                       | 41                   | 72              | 4,496    | 368                 | 971                             |
| R I                       | 474                       | 0                       | 0                    | 1               | 24       | 38                  | 13                              |
| S C                       | 918                       | 0                       | 0                    | 129             | 1,115    | 61                  | 2,531                           |
| S DAK                     | 233                       | 3,111                   | 0                    | 13              | 6,565    | 2                   | 0                               |
| TENN                      | 0                         | 0                       | 0                    | 0               | 19,829   | 32                  | 0                               |
| TEX                       | 17,070                    | 753                     | 0                    | 224             | 5,641    | 401                 | 4,682                           |
| UTAH                      | 1,340                     | 55                      | 0                    | 297             | 9,515    | 0                   | 1                               |
| VT                        | 0                         | 0                       | 0                    | 0               | 628      | 0                   | 0                               |
| VA                        | 1,814                     | 8                       | 1                    | 70              | 1,965    | 63                  | 58                              |
| WASH                      | 9,166                     | 510                     | 0                    | 199             | 3,917    | 295                 | 41                              |
| W VA                      | 0                         | 0                       | 0                    | 0               | 2,142    | 7                   | 2,485                           |
| WIS                       | 7                         | 75                      | 7                    | 423             | 27,564   | 396                 | 9,574                           |
| WYO                       | 65                        | 345                     | 0                    | 0               | 1,698    | 0                   | 519                             |
| P R                       | 106                       | 0                       | 0                    | 0               | 1        | 0                   | 0                               |
| TOTAL                     | 165,335                   | 36,767                  | 477                  | 17,309          | 555,873  | 7,550               | 49,614                          |

1/ TOTAL OF 11-46-0, 13-39-0, 16-20-0, 21-53-0, AND 27-14-0. 2/ INCLUDES COLLOIDAL PHOSPHATE.

TABLE 12 -- K O CONTENT OF DIRECT APPLICATION MATERIALS CONSUMED,  
2  
YEAR ENDED JUNE 30, 1979

| STATE                     | POTASSIUM<br>CHLORIDE | POTASSIUM<br>MAGNESIUM<br>SULFATE | POTASSIUM<br>NITRATE | POTASSIUM-<br>SODIUM<br>NITRATE | POTASSIUM<br>SULFATE | NATURAL<br>ORGANICS | OTHER<br>POTASSIUM<br>MATERIALS |
|---------------------------|-----------------------|-----------------------------------|----------------------|---------------------------------|----------------------|---------------------|---------------------------------|
| ----- NUTRIENT TONS ----- |                       |                                   |                      |                                 |                      |                     |                                 |
| ALA                       | 11,292                | 512                               | 7                    | 803                             | 0                    | 38                  | 1,721                           |
| ALAS                      | 61                    | 0                                 | 0                    | 0                               | 5                    | 0                   | 0                               |
| ARIZ                      | 229                   | 0                                 | 0                    | 0                               | 0                    | 3                   | 0                               |
| ARK                       | 13,383                | 225                               | 0                    | 29                              | 59                   | 61                  | 0                               |
| CALIF                     | 9,812                 | 83                                | 416                  | 0                               | 2,284                | 2,912               | 252                             |
| COLO                      | 7,033                 | 680                               | 6                    | 0                               | 765                  | 88                  | 174                             |
| CONN                      | 1,529                 | 0                                 | 17                   | 0                               | 0                    | 127                 | 14                              |
| DEL                       | 7,891                 | 6                                 | 0                    | 0                               | 0                    | 18                  | 0                               |
| D C                       | 54                    | 0                                 | 0                    | 3                               | 8                    | 23                  | 0                               |
| FLA                       | 12,536                | 2,363                             | 1,610                | 6,062                           | 253                  | 394                 | 1,260                           |
| GA                        | 14,176                | 3,945                             | 134                  | 891                             | 113                  | 238                 | 1,382                           |
| HAW                       | 11,022                | 43                                | 42                   | 0                               | 527                  | 0                   | 6                               |
| IDAH                      | 5,737                 | 0                                 | 0                    | 0                               | 2,504                | 0                   | 2                               |
| ILL                       | 635,994               | 441                               | 0                    | 0                               | 0                    | 24                  | 211                             |
| IND                       | 254,285               | 0                                 | 0                    | 0                               | 0                    | 0                   | 10,082                          |
| IOWA                      | 538,979               | 26                                | 0                    | 0                               | 0                    | 3                   | 289                             |
| KANS                      | 38,404                | 0                                 | 0                    | 0                               | 0                    | 3                   | 0                               |
| KY                        | 86,946                | 525                               | 53                   | 66                              | 8,191                | 6                   | 24                              |
| LA                        | 4,534                 | 3                                 | 0                    | 12                              | 16                   | 119                 | 2,474                           |
| MAINE                     | 1,210                 | 25                                | 0                    | 0                               | 0                    | 50                  | 0                               |
| MD                        | 20,465                | 0                                 | 36                   | 37                              | 471                  | 135                 | 0                               |
| MASS                      | 1,474                 | 50                                | 29                   | 0                               | 0                    | 67                  | 3                               |
| MICH                      | 136,583               | 636                               | 2                    | 1                               | 950                  | 223                 | 164                             |
| MINN                      | 389,755               | 880                               | 7                    | 0                               | 100                  | 31                  | 248                             |
| MISS                      | 12,012                | 0                                 | 0                    | 1                               | 0                    | 2                   | 0                               |
| MO                        | 17,894                | 57                                | 6                    | 32                              | 22                   | 9                   | 700                             |
| MONT                      | 0                     | 0                                 | 0                    | 0                               | 0                    | 0                   | 8,967                           |
| NEBR                      | 39,720                | 4,255                             | 0                    | 0                               | 72                   | 3                   | 12,596                          |
| NEV                       | 1                     | 0                                 | 0                    | 0                               | 1                    | 18                  | 9                               |
| N H                       | 962                   | 5                                 | 4                    | 0                               | 0                    | 47                  | 0                               |
| N J                       | 3,220                 | 55                                | 5                    | 9                               | 16                   | 295                 | 80                              |
| N MEX                     | 409                   | 925                               | 0                    | 0                               | 224                  | 76                  | 0                               |
| N Y                       | 7,722                 | 432                               | 16                   | 422                             | 306                  | 135                 | 452                             |
| N C                       | 11,572                | 206                               | 201                  | 2,251                           | 208                  | 131                 | 364                             |
| N DAK                     | 14,587                | 0                                 | 0                    | 0                               | 0                    | 31                  | 0                               |
| OHIO                      | 260,510               | 271                               | 32                   | 15                              | 218                  | 301                 | 1,268                           |
| OKLA                      | 21,320                | 1,003                             | 0                    | 0                               | 0                    | 94                  | 0                               |
| OREG                      | 15,972                | 767                               | 32                   | 0                               | 754                  | 16                  | 906                             |
| PA                        | 17,713                | 156                               | 2                    | 4                               | 20                   | 136                 | 459                             |
| R I                       | 238                   | 0                                 | 0                    | 0                               | 0                    | 18                  | 0                               |
| S C                       | 8,904                 | 528                               | 54                   | 300                             | 100                  | 88                  | 2,693                           |
| S DAK                     | 12,195                | 42                                | 0                    | 0                               | 0                    | 1                   | 0                               |
| TENN                      | 77,895                | 0                                 | 0                    | 0                               | 1,754                | 18                  | 2                               |
| TEX                       | 4,544                 | 1,826                             | 0                    | 50                              | 0                    | 590                 | 1,470                           |
| UTAH                      | 445                   | 0                                 | 0                    | 0                               | 0                    | 0                   | 0                               |
| VT                        | 1,921                 | 0                                 | 0                    | 0                               | 0                    | 0                   | 0                               |
| VA                        | 8,814                 | 40                                | 30                   | 171                             | 69                   | 117                 | 149                             |
| WASH                      | 21,330                | 755                               | 0                    | 0                               | 2,498                | 523                 | 11                              |
| W VA                      | 3,972                 | 16                                | 0                    | 0                               | 0                    | 13                  | 0                               |
| WIS                       | 280,942               | 1,316                             | 10                   | 0                               | 1,197                | 82                  | 439                             |
| WYO                       | 506                   | 0                                 | 0                    | 0                               | 30                   | 1                   | 108                             |
| P R                       | 1                     | 4                                 | 0                    | 0                               | 100                  | 0                   | 0                               |
| TOTAL                     | 3,048,703             | 23,112                            | 2,751                | 11,159                          | 23,833               | 7,329               | 49,170                          |

TABLE 13 -- CONSUMPTION OF 15 PRINCIPAL GRADES IN EACH STATE.  
YEAR ENDED JUNE 30, 1978

| STATE | RANK                        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|       | 1                           | 2                  | 3                  | 4                  | 5                  | 6                  | 7                  | 8                  | 9                  | 10                 | 11                 | 12                 | 13                 | 14                 | 15                 |
| ALA   | ANAL<br>13-13-13<br>186,208 | 8-24-24<br>83,958  | 8-8-8<br>39,342    | 5-10-15<br>37,555  | 5-10-15<br>36,619  | 4-12-12<br>35,061  | 3-9-18<br>21,133   | 0-20-20<br>15,517  | 0-20-20<br>14,466  | 4-12-24<br>10,997  | 10-10-10<br>10,693 | 15-10-10<br>9,958  | 3-10-20<br>9,171   | 6-18-18<br>8,142   | 10-14-10<br>6,055  |
| ARIZ  | ANAL<br>10-34-0<br>1,128    | 18-46-0<br>11,920  | 18-18-0<br>3,637   | 11-54-0<br>1,128   | 26-14-0<br>610     | 15-8-4<br>408      | 10-30-5<br>326     | 0-20-20<br>326     | 33-20-0<br>325     | 23-37-0<br>309     | 5-15-30<br>276     | 12-24-12<br>266    | 0-18-36<br>257     | 16-6-8<br>257      | 0-15-30<br>257     |
| ARK   | ANAL<br>13-13-13<br>55,051  | 10-20-10<br>23,859 | 5-15-30<br>23,695  | 12-24-12<br>20,414 | 0-20-20<br>18,713  | 0-24-24<br>17,587  | 0-17-34<br>16,713  | 10-20-20<br>16,975 | 8-24-24<br>12,400  | 0-15-30<br>11,573  | 12-12-12<br>11,455 | 0-18-36<br>10,864  | 6-24-24<br>8,083   | 20-10-10<br>7,536  | 4-12-24<br>6,894   |
| CALIF | ANAL<br>10-34-0<br>46,663   | 12-12-12<br>21,984 | 19-9-0<br>21,984   | 18-46-0<br>21,984  | 6-20-20<br>21,984  | 4-10-10<br>21,984  | 16-14-16<br>21,984 | 8-24-24<br>21,984  | 21-7-34<br>21,984  | 28-10-0<br>21,984  | 27-12-0<br>21,984  | 16-6-8<br>21,984   | 12-455<br>21,984   | 15-15-15<br>21,984 | 15-10-10<br>21,984 |
| COLOR | ANAL<br>18-46-0<br>65,826   | 10-34-0<br>13,114  | 10-8-5<br>2,652    | 20-10-5<br>2,652   | 22-3-3<br>2,652    | 11-55-0<br>2,652   | 7-21-7<br>1,164    | 16-3-3<br>1,164    | 20-20-10<br>1,164  | 0-23-10<br>1,164   | 16-20-6<br>1,164   | 22-4-4<br>859      | 12-50-0<br>831     | 25-3-7<br>602      | 8-20-6<br>538      |
| CONN  | ANAL<br>10-10-10<br>6,551   | 10-6-4<br>2,665    | 5-10-10<br>2,665   | 26-3-3<br>2,310    | 8-10-10<br>1,719   | 15-10-10<br>1,709  | 6-3-6<br>1,291     | 12-7-10<br>1,283   | 15-6-12<br>1,283   | 12-15-15<br>1,065  | 25-3-3<br>950      | 5-10-10<br>944     | 16-8-12<br>891     | 2-1-2<br>584       | 10-20-20<br>582    |
| DEL   | ANAL<br>10-10-10<br>10,029  | 10-20-20<br>6,482  | 18-46-0<br>5,507   | 13-10-22<br>4,258  | 5-10-10<br>3,944   | 3-9-18<br>2,449    | 12-8-20<br>2,394   | 8-10-10<br>2,379   | 15-15-15<br>2,038  | 5-15-30<br>1,996   | 13-10-10<br>1,778  | 5-10-10<br>1,480   | 4-12-24<br>1,441   | 5-10-15<br>1,305   | 6-12-12<br>1,219   |
| D C   | ANAL<br>10-10-10<br>1,125   | 10-6-4<br>980      | 5-10-5<br>875      |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| FLA   | ANAL<br>70-783              | 10-10-10<br>58,067 | 12-0-12<br>34,449  | 16-0-16<br>44,842  | 5-10-15<br>38,521  | 6-8-8<br>37,396    | 13-13-13<br>30,662 | 12-2-12<br>30,303  | 16-4-8<br>30,257   | 16-8-8<br>27,455   | 20-10-10<br>21,420 | 8-8-8<br>21,345    | 20-5-10<br>16,606  | 8-2-8<br>16,557    | 0-10-40<br>16,159  |
| GA    | ANAL<br>5-10-15<br>410,303  | 4-12-24<br>112,650 | 4-12-24<br>83,943  | 4-8-12<br>55,574   | 4-8-12<br>55,574   | 10-10-10<br>55,574 | 7-14-21<br>34,970  | 3-9-9<br>22,210    | 13-13-13<br>17,964 | 6-12-18<br>17,396  | 8-12-24<br>15,791  | 3-10-20<br>15,691  | 3-10-20<br>14,805  | 6-12-12<br>14,383  | 3-9-24<br>12,662   |
| IDAHO | ANAL<br>18-46-0<br>60,300   | 10-34-0<br>7,185   | 27-13-0<br>7,185   | 11-55-0<br>6,476   | 16-14-16<br>6,466  | 22-2-20<br>6,466   | 10-34-0<br>1,251   | 18-18-10<br>740    | 18-18-10<br>185    | 10-34-0<br>9,235   | 0-23-30<br>17,424  | 5-15-20<br>14,406  | 4-13-26<br>14,002  | 4-10-10<br>13,603  | 4-12-24<br>13,321  |
| ILL   | ANAL<br>18-46-0<br>506,511  | 6-24-24<br>74,321  | 3-10-30<br>45,987  | 3-9-12<br>43,356   | 5-17-21<br>29,268  | 6-18-6<br>24,360   | 8-32-16<br>22,131  | 10-34-0<br>20,578  | 5-20-35<br>20,345  | 9-23-30<br>17,424  | 0-23-30<br>17,424  | 5-15-20<br>14,406  | 4-13-26<br>14,002  | 4-10-10<br>13,603  | 4-12-24<br>13,321  |
| IND   | ANAL<br>6-24-24<br>170,973  | 0-24-26<br>136,172 | 18-46-0<br>123,762 | 10-34-0<br>107,703 | 4-12-36<br>99,319  | 4-12-36<br>99,319  | 3-9-9<br>75,016    | 7-21-7<br>63,547   | 13-13-13<br>42,942 | 4-10-10<br>41,200  | 10-5-10<br>38,531  | 0-15-40<br>37,137  | 5-18-21<br>33,793  | 20-5-10<br>31,403  | 0-9-27<br>28,741   |
| IOWA  | ANAL<br>527,597             | 3-10-30<br>40,719  | 6-24-24<br>39,640  | 10-34-0<br>37,269  | 8-32-16<br>36,202  | 24-273<br>24,273   | 7-21-7<br>24,460   | 3-9-9<br>21,698    | 5-17-21<br>16,190  | 5-15-25<br>13,974  | 4-12-24<br>13,913  | 7-23-5<br>13,243   | 6-18-18<br>13,032  | 5-23-27<br>12,598  | 10-20-20<br>11,953 |
| KANS  | ANAL<br>205,039             | 10-34-0<br>56,268  | 8-32-16<br>25,811  | 12-50-0<br>12,273  | 6-24-24<br>6,089   | 5-928<br>5,928     | 11-55-0<br>5,756   | 4-10-10<br>5,452   | 12-24-12<br>4,727  | 11-52-0<br>4,707   | 16-20-6<br>4,270   | 11-54-0<br>3,687   | 10-20-10<br>3,244  | 12-12-12<br>3,090  | 7-21-7<br>2,011    |
| KY    | ANAL<br>5-10-15<br>99,984   | 18-46-0<br>99,012  | 10-10-10<br>87,376 | 6-24-24<br>87,376  | 5-20-20<br>87,376  | 15-15-15<br>87,376 | 6-12-12<br>8,613   | 7-21-7<br>8,595    | 0-23-30<br>7,758   | 9-23-30<br>7,653   | 6-12-18<br>6,618   | 19-19-19<br>5,703  | 12-12-12<br>5,048  | 8-10-15<br>4,944   | 4-18-4<br>3,913    |
| LA    | ANAL<br>52,236              | 8-24-24<br>25,933  | 6-24-24<br>22,637  | 0-26-26<br>21,912  | 14-8-8<br>20,125   | 17,861<br>17,861   | 12-12-12<br>17,773 | 8-8-8<br>14,682    | 0-17-34<br>10,427  | 10-10-10<br>8,243  | 12-6-10<br>7,972   | 18-18-9<br>7,303   | 4-11-11<br>7,176   | 0-20-30<br>6,946   | 15-15-15<br>6,695  |
| MAINE | ANAL<br>10-15-15<br>45,325  | 12-12-12<br>13,723 | 15-8-12<br>6,967   | 15-8-12<br>5,992   | 10-10-10<br>4,630  | 3,939<br>3,939     | 8-12-16<br>3,368   | 10-20-10<br>2,679  | 5-10-10<br>2,231   | 12-15-15<br>2,146  | 5-20-20<br>1,934   | 12-18-18<br>1,302  | 8-12-12<br>1,155   | 10-20-20<br>1,062  | 12-16-16<br>783    |
| MD    | ANAL<br>10-10-10<br>49,310  | 10-20-20<br>38,756 | 18-46-0<br>22,760  | 5-10-10<br>9,286   | 10-6-4<br>7,971    | 15-15-15<br>7,587  | 10-20-10<br>6,930  | 12-20-10<br>6,350  | 5-10-10<br>6,039   | 6-24-24<br>5,806   | 5-15-30<br>5,412   | 15-10-10<br>5,309  | 10-20-20<br>5,209  | 16-8-12<br>4,812   | 8-10-10<br>4,184   |
| MASS  | ANAL<br>6-24-24<br>166,696  | 18-46-0<br>58,235  | 10-34-0<br>42,181  | 12-12-12<br>38,872 | 16-16-16<br>30,424 | 15-8-12<br>16,377  | 15-15-15<br>15,728 | 19-19-19<br>15,728 | 14-14-14<br>13,400 | 10-20-20<br>13,342 | 10-34-0<br>12,571  | 10-20-10<br>11,441 | 13-13-13<br>11,268 | 6-26-26<br>8,290   | 9-18-9<br>6,964    |
| MICH  | ANAL<br>339,013             | 8-24-24<br>28,589  | 10-34-0<br>24,451  | 7-23-5<br>13,096   | 3-10-30<br>11,490  | 10-34-0<br>10,359  | 15-15-15<br>9,860  | 8-8-8<br>8,860     | 9-18-9<br>8,860    | 8-32-16<br>8,398   | 11-52-0<br>8,103   | 15-10-10<br>6,716  | 10-20-20<br>6,264  | 10-20-20<br>5,127  | 10-26-26<br>4,324  |
| MINN  | ANAL<br>13-13-13<br>163,157 | 8-24-24<br>54,204  | 0-24-24<br>32,088  | 5-15-30<br>28,875  | 22,132<br>22,132   | 6-8-8<br>22,132    | 0-15-30<br>17,943  | 0-20-20<br>17,290  | 3-9-18<br>13,257   | 4-12-24<br>10,052  | 8-8-8<br>8,748     | 18-46-0<br>5,366   | 12-12-12<br>5,235  | 15-10-10<br>3,069  | 6-24-24<br>2,676   |
| MISS  | ANAL<br>17-17-17<br>87,381  | 6-24-24<br>64,407  | 12-12-12<br>55,052 | 23-11-11<br>53,355 | 27-13-13<br>52,344 | 19-19-19<br>40,821 | 19-19-19<br>23,927 | 22-7-15<br>22,725  | 13-13-13<br>21,663 | 24-16-16<br>20,296 | 0-25-25<br>17,684  | 0-17-35<br>16,201  | 22-11-22<br>15,761 | 6-25-25<br>14,486  | 21-13-12<br>13,955 |
| MO    |                             |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |



TABLE 14 — CONSUMPTION OF 15 PRINCIPAL GRADES IN EACH STATE,  
YEAR ENDED JUNE 30, 1979

| STATE | RANK         |                     |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                      |                   |                   |
|-------|--------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|-------------------|-------------------|
|       | 1            | 2                   | 3                  | 4                  | 5                  | 6                  | 7                  | 8                  | 9                  | 10                 | 11                 | 12                 | 13                   | 14                | 15                |
| ALA   | ANAL<br>TENS | 13-13-12<br>182,446 | 8-24-24<br>72,604  | 5-15-30<br>50,182  | 8-8-8<br>36,658    | 3-9-18<br>22,509   | 0-20-24<br>20,614  | 4-12-12<br>19,048  | 4-12-24<br>17,028  | 0-24-24<br>13,735  | 3-10-20<br>13,021  | 6-10-18<br>8,994   | 13-10-10<br>10-10-10 | 10-10-10<br>8,065 | 4-10-20<br>7,314  |
|       | ANAL<br>TENS | 10-34-0<br>18,865   | 18-4-8<br>16,500   | 10-18-0<br>15,818  | 16-4-8<br>14,744   | 35-17-0<br>707     | 11-52-0<br>583     | 15-8-4<br>281      | 9-26-26<br>243     | 10-6-4<br>236      | 10-10-5<br>201     | 0-17-34<br>116     | 0-20-20<br>149       | 24-4-12<br>149    | 13-13-13<br>134   |
|       | ANAL<br>TENS | 13-13-13<br>50,141  | 12-24-12<br>21,446 | 0-20-20<br>20,543  | 0-24-24<br>20,543  | 5-15-30<br>19,764  | 10-30-10<br>19,163 | 10-20-20<br>17,658 | 0-17-34<br>14,212  | 8-24-24<br>11,560  | 4-12-24<br>10,827  | 0-15-30<br>9,988   | 12-12-12<br>9,382    | 6-24-24<br>7,145  | 19-19-19<br>6,488 |
| ARK   | ANAL<br>TENS | 10-34-0<br>26,574   | 12-12-12<br>25,707 | 15-9-0<br>23,681   | 6-24-24<br>25,304  | 16-18-10<br>21,610 | 4-10-10<br>19,093  | 20-10-0<br>16,711  | 21-7-14<br>15,442  | 8-24-6<br>12,917   | 12-13-13<br>12,573 | 16-6-8<br>10,821   | 15-10-10<br>10,522   | 14-14-14<br>9,742 | 14-7-14<br>8,037  |
|       | ANAL<br>TENS | 13-44-0<br>32,772   | 10-34-0<br>22,340  | 22-3-0<br>24,990   | 0-18-12<br>24,770  | 0-18-12<br>24,770  | 10-5-5<br>24,225   | 23-19-17<br>24,225 | 11-52-0<br>24,225  | 10-20-6<br>24,225  | 23-20-10<br>24,225 | 7-21-7<br>24,225   | 22-4-8<br>24,225     | 11-55-0<br>24,225 | 20-5-10<br>24,225 |
|       | ANAL<br>TENS | 10-10-10<br>1,001   | 10-6-4<br>2,685    | 5-10-10<br>2,685   | 2-3-0<br>2,310     | 8-10-10<br>1,719   | 15-10-10<br>1,709  | 6-6-4<br>1,291     | 1-7-14<br>1,263    | 12-15-15<br>1,023  | 12-15-15<br>1,023  | 5-10-5<br>944      | 16-8-12<br>891       | 2-1-2<br>564      | 10-20-20<br>582   |
| CALIF | ANAL<br>TENS | 10-10-10<br>9,500   | 16-20-20<br>7,465  | 18-42-0<br>7,465   | 13-10-22<br>4,503  | 5-10-10<br>4,468   | 3-15-30<br>3,119   | 3-9-18<br>2,657    | 12-8-20<br>2,463   | 15-15-15<br>2,331  | 5-15-30<br>2,050   | 8-10-10<br>1,905   | 15-10-10<br>1,680    | 4-12-24<br>1,452  | 5-10-15<br>1,415  |
|       | ANAL<br>TENS | 10-6-4<br>1,001     | 10-10-10<br>1,014  | 5-10-5<br>520      | 5-10-10<br>651     | 26-3-0<br>429      | 23-7-7<br>400      | 25-0-3<br>245      | 22-0-10<br>230     | 20-4-10<br>34      | 20-4-10<br>30      | 3-3-10<br>29       | 31-3-10<br>15        | 24-4-8<br>14      | 20-10-10<br>11    |
|       | ANAL<br>TENS | 6-6-6<br>76,772     | 10-10-10<br>57,278 | 12-0-12<br>58,982  | 6-8-8<br>49,524    | 16-0-16<br>49,524  | 12-2-2<br>41,147   | 5-10-15<br>38,359  | 16-8-8<br>37,718   | 10-8-8<br>33,230   | 20-10-10<br>27,068 | 13-13-13<br>26,344 | 14-0-14<br>25,846    | 8-8-8<br>22,667   | 8-4-10<br>19,951  |
| CUNN  | ANAL<br>TENS | 5-20-15<br>376,582  | 3-5-15<br>144,054  | 4-12-24<br>111,517 | 0-10-20<br>68,497  | 4-8-12<br>44,180   | 10-10-10<br>35,301 | 7-14-21<br>27,160  | 3-5-5<br>21,008    | 6-12-16<br>17,430  | 16-20-30<br>16,336 | 12-13-13<br>16,336 | 3-10-20<br>16,336    | 8-16-24<br>14,127 | 3-9-24<br>12,726  |
|       | ANAL<br>TENS | 18-46-0<br>54,721   | 27-3-0<br>11,299   | 26-16-0<br>7,354   | 10-16-6<br>7,354   | 10-33-0<br>6,459   | 16-16-0<br>6,286   | 11-55-0<br>3,351   | 10-32-0<br>175     | 18-18-10<br>175    | 9-23-30<br>16,114  | 4-12-26<br>15,116  | 3-10-10<br>14,620    | 0-23-20<br>13,763 |                   |
|       | ANAL<br>TENS | 18-46-0<br>596,702  | 6-24-24<br>7,278   | 3-10-30<br>69,818  | 3-5-5<br>62,105    | 5-17-21<br>36,772  | 5-20-15<br>35,353  | 10-24-0<br>27,898  | 6-12-16<br>27,776  | 4-10-10<br>24,317  | 10-24-0<br>27,068  | 13-13-13<br>26,344 | 14-0-14<br>25,846    | 8-8-8<br>22,667   | 8-4-10<br>19,951  |
| DEL   | ANAL<br>TENS | 3-24-24<br>135,688  | 6-24-24<br>141,752 | 4-12-24<br>125,920 | 16-46-0<br>125,920 | 4-12-24<br>114,682 | 10-34-0<br>100,403 | 7-21-7<br>78,517   | 3-9-5<br>61,188    | 4-10-10<br>55,292  | 0-9-27<br>50,349   | 13-13-13<br>46,423 | 0-15-40<br>46,026    | 5-18-21<br>38,690 | 10-5-10<br>35,237 |
|       | ANAL<br>TENS | 48-46-0<br>655,051  | 6-24-24<br>44,003  | 3-10-30<br>44,849  | 10-34-0<br>44,849  | 8-22-16<br>34,876  | 20-10-10<br>31,039 | 3-9-27<br>25,374   | 7-21-7<br>25,374   | 11-54-0<br>16,774  | 5-17-21<br>15,530  | 4-13-26<br>15,301  | 6-18-16<br>13,946    | 4-16-22<br>12,219 | 8-18-9<br>11,411  |
|       | ANAL<br>TENS | 18-46-0<br>286,716  | 10-54-0<br>63,017  | 6-32-16<br>27,860  | 11-54-0<br>11,651  | 12-50-0<br>10,587  | 16-20-6<br>8,135   | 6-24-24<br>7,274   | 11-52-0<br>6,217   | 12-24-12<br>5,510  | 4-10-10<br>5,465   | 11-55-0<br>5,465   | 4-10-10<br>5,465     | 12-12-12<br>4,004 | 11-44-0<br>2,863  |
| FLA   | ANAL<br>TENS | 18-46-0<br>105,028  | 5-12-15<br>87,695  | 10-10-10<br>84,295 | 6-24-24<br>82,976  | 5-20-20<br>24,777  | 15-15-15<br>17,997 | 7-28-28<br>9,231   | 0-23-30<br>7,990   | 6-12-12<br>6,437   | 6-23-30<br>6,092   | 6-12-18<br>5,888   | 12-12-12<br>5,563    | 10-4-10<br>5,069  |                   |
|       | ANAL<br>TENS | 13-13-13<br>51,734  | 2-24-24<br>24,575  | 0-20-20<br>19,101  | 6-24-24<br>18,865  | 0-24-24<br>17,463  | 8-8-8<br>14,627    | 14-8-8<br>14,403   | 9-18-34<br>12,740  | 12-12-12<br>12,391 | 12-6-10<br>11,904  | 0-20-20<br>9,750   | 4-11-11<br>8,334     | 2-6-12<br>6,564   |                   |
|       | ANAL<br>TENS | 48-45-15<br>34,717  | 14-14-14<br>15,232 | 15-15-15<br>14,058 | 12-12-12<br>7,013  | 12-12-12<br>6,554  | 15-8-12<br>5,320   | 10-10-10<br>3,512  | 10-20-10<br>2,595  | 5-10-5<br>2,585    | 8-12-16<br>2,225   | 5-20-20<br>1,915   | 8-12-12<br>1,750     | 5-10-5<br>798     |                   |
| GA    | ANAL<br>TENS | 10-10-10<br>52,154  | 10-20-20<br>33,491 | 18-46-0<br>27,595  | 5-10-10<br>10,647  | 4-8-12<br>8,703    | 5-10-20<br>8,703   | 13-6-4<br>6,481    | 6-24-24<br>6,152   | 12-4-20<br>6,152   | 13-10-22<br>6,014  | 5-15-30<br>5,642   | 0-10-30<br>4,942     | 4-10-24<br>4,112  | 5-10-5<br>4,024   |
|       | ANAL<br>TENS | 10-10-10<br>8,750   | 5-10-10<br>3,719   | 15-8-12<br>2,116   | 26-2-3<br>5,105    | 10-6-4<br>2,948    | 24-4-4<br>2,408    | 15-15-15<br>2,660  | 25-2-3<br>1,558    | 5-10-5<br>1,465    | 13-20-10<br>1,444  | 10-20-20<br>1,389  | 15-10-10<br>1,231    | 12-4-8<br>1,025   | 882               |
|       | ANAL<br>TENS | 16-9-24<br>169,762  | 18-4-4<br>64,850   | 9-32-16<br>35,759  | 12-12-12<br>34,415 | 16-16-16<br>26,879 | 9-25-3<br>19,250   | 15-15-15<br>17,423 | 19-19-19<br>14,176 | 7-23-5<br>7,759    | 0-32-26<br>6,487   | 4-13-24<br>6,504   | 6-26-26<br>5,410     | 9-18-9<br>4,782   | 5-18-9<br>4,468   |
| IND   | ANAL<br>TENS | 18-46-0<br>425,916  | 10-34-0<br>22,405  | 6-23-30<br>19,486  | 11-54-0<br>16,703  | 7-21-7<br>16,559   | 6-24-24<br>13,714  | 3-10-30<br>13,490  | 0-32-26<br>10,721  | 11-55-0<br>5,576   | 15-38-10<br>8,487  | 4-13-24<br>6,504   | 9-18-9<br>4,972      | 10-20-20<br>4,782 | 5-18-9<br>4,468   |
|       | ANAL<br>TENS | 15-15-15<br>157,454 | 6-24-24<br>56,584  | 10-34-0<br>37,477  | 5-15-20<br>15,239  | 0-17-24<br>17,178  | 0-15-30<br>17,178  | 0-20-20<br>17,178  | 6-6-6<br>40,246    | 3-9-18<br>7,759    | 4-12-24<br>7,776   | 0-10-30<br>3,120   | 12-12-12<br>3,120    | 3-9-27<br>2,950   | 5-20-20<br>2,760  |
|       | ANAL<br>TENS | 17-17-17<br>51,671  | 6-24-24<br>67,046  | 16-15-15<br>60,326 | 27-13-13<br>59,050 | 12-12-12<br>58,121 | 23-11-11<br>53,549 | 26-6-6<br>28,915   | 0-17-35<br>7,527   | 0-28-26<br>27,310  | 15-6-15<br>6,256   | 22-7-15<br>6,256   | 21-14-14<br>6,077    | 9-22-30<br>6,077  | 0-13-16<br>1,846  |
| KY    | ANAL<br>TENS | 10-10-10<br>105,028 | 5-12-15<br>87,695  | 10-10-10<br>84,295 | 6-24-24<br>82,976  | 5-20-20<br>24,777  | 15-15-15<br>17,997 | 7-28-28<br>9,231   | 0-23-30<br>7,990   | 6-12-12<br>6,437   | 6-23-30<br>6,092   | 6-12-18<br>5,888   | 12-12-12<br>5,563    | 10-4-10<br>5,069  |                   |
|       | ANAL<br>TENS | 13-13-13<br>51,734  | 2-24-24<br>24,575  | 0-20-20<br>19,101  | 6-24-24<br>18,865  | 0-24-24<br>17,463  | 8-8-8<br>14,627    | 14-8-8<br>14,403   | 9-18-34<br>12,740  | 12-12-12<br>12,391 | 12-6-10<br>11,904  | 0-20-20<br>9,750   | 4-11-11<br>8,334     | 2-6-12<br>6,564   |                   |
|       | ANAL<br>TENS | 48-45-15<br>34,717  | 14-14-14<br>15,232 | 15-15-15<br>14,058 | 12-12-12<br>7,013  | 12-12-12<br>6,554  | 15-8-12<br>5,320   | 10-10-10<br>3,512  | 10-20-10<br>2,595  | 5-10-5<br>2,585    | 8-12-16<br>2,225   | 5-20-20<br>1,915   | 8-12-12<br>1,750     | 5-10-5<br>798     |                   |
| LA    | ANAL<br>TENS | 10-10-10<br>52,154  | 10-20-20<br>33,491 | 18-46-0<br>27,595  | 5-10-10<br>10,647  | 4-8-12<br>8,703    | 5-10-20<br>8,703   | 13-6-4<br>6,481    | 6-24-24<br>6,152   | 12-4-20<br>6,152   | 13-10-22<br>6,014  | 5-15-30<br>5,642   | 0-10-30<br>4,942     | 4-10-24<br>4,112  | 5-10-5<br>4,024   |
|       | ANAL<br>TENS | 10-10-10<br>8,750   | 5-10-10<br>3,719   | 15-8-12<br>2,116   | 26-2-3<br>5,105    | 10-6-4<br>2,948    | 24-4-4<br>2,408    | 15-15-15<br>2,660  | 25-2-3<br>1,558    | 5-10-5<br>1,465    | 13-20-10<br>1,444  | 10-20-20<br>1,389  | 15-10-10<br>1,231    | 12-4-8<br>1,025   | 882               |
|       | ANAL<br>TENS | 16-9-24<br>169,762  | 18-4-4<br>64,850   | 9-32-16<br>35,759  | 12-12-12<br>34,415 | 16-16-16<br>26,879 | 9-25-3<br>19,250   | 15-15-15<br>17,423 | 19-19-19<br>14,176 | 7-23-5<br>7,759    | 0-32-26<br>6,487   | 4-13-24<br>6,504   | 6-26-26<br>5,410     | 9-18-9<br>4,782   | 5-18-9<br>4,468   |
| MAINE | ANAL<br>TENS | 18-46-0<br>425,916  | 10-34-0<br>22,405  | 6-23-30<br>19,486  | 11-54-0<br>16,703  | 7-21-7<br>16,559   | 6-24-24<br>13,714  | 3-10-30<br>13,490  | 0-32-26<br>10,721  | 11-55-0<br>5,576   | 15-38-10<br>8,487  | 4-13-24<br>6,504   | 9-18-9<br>4,972      | 10-20-20<br>4,782 | 5-18-9<br>4,468   |
|       | ANAL<br>TENS | 15-15-15<br>157,454 | 6-24-24<br>56,584  | 10-34-0<br>37,477  | 5-15-20<br>15,239  | 0-17-24<br>17,178  | 0-15-30<br>17,178  | 0-20-20<br>17,178  | 6-6-6<br>40,246    | 3-9-18<br>7,759    | 4-12-24<br>7,776   | 0-10-30<br>3,120   | 12-12-12<br>3,120    | 3-9-27<br>2,950   | 5-20-20<br>2,760  |
|       | ANAL<br>TENS | 17-17-17<br>51,671  | 6-24-24<br>67,046  | 16-15-15<br>60,326 | 27-13-13<br>59,050 | 12-12-12<br>58,121 | 23-11-11<br>53,549 | 26-6-6<br>28,915   | 0-17-35<br>7,527   | 0-28-26<br>27,310  | 15-6-15<br>6,256   | 22-7-15<br>6,256   | 21-14-14<br>6,077    | 9-22-30<br>6,077  | 0-13-16<br>1,846  |
| MD    | ANAL<br>TENS | 10-10-10<br>105,028 | 5-12-15<br>87,695  | 10-10-10<br>84,295 | 6-24-24<br>82,976  | 5-20-20<br>24,777  | 15-15-15<br>17,997 | 7-28-28<br>9,231   | 0-23-30<br>7,990   | 6-12-12<br>6,437   | 6-23-30<br>6,092   | 6-12-18<br>5,888   | 12-12-12<br>5,563    | 10-4-10<br>5,069  |                   |
|       | ANAL<br>TENS | 13-13-13<br>51,734  | 2-24-24<br>24,575  | 0-20-20<br>19,101  | 6-24-24<br>18,865  | 0-24-24<br>17,463  | 8-8-8<br>14,627    | 14-8-8<br>14,403   | 9-18-34<br>12,740  | 12-12-12<br>12,391 | 12-6-10<br>11,904  | 0-20-20<br>9,750   | 4-11-11<br>8,334     | 2-6-12<br>6,564   |                   |
|       | ANAL<br>TENS | 48-45-15<br>34,717  | 14-14-14<br>15,232 | 15-15-15<br>14,058 | 12-12-12<br>7,013  | 12-12-12<br>6,554  | 15-8-12<br>5,320   | 10-10-10<br>3,512  | 10-20-10<br>2,595  | 5-10-5<br>2,585    | 8-12-16<br>2,225   | 5-20-20<br>1,915   | 8-12-12<br>1,750     | 5-10-5<br>798     |                   |
| MASS  | ANAL<br>TENS | 10-10-10<br>52,154  | 10-20-20<br>33,491 | 18-46-0<br>27,595  | 5-10-10<br>10,647  | 4-8-12<br>8,703    | 5-10-20<br>8,703   | 13-6-4<br>6,481    | 6-24-24<br>6,152   | 12-4-20<br>6,152   | 13-10-22<br>6,014  | 5-15-30<br>5,642   | 0-10-30<br>4,942     | 4-10-24<br>4,112  | 5-10-5<br>4,024   |
|       | ANAL<br>TENS | 10-10-10<br>8,750   | 5-10-10<br>3,719   | 15-8-12<br>2,116   | 26-2-3<br>5,105    | 10-6-4<br>2,948    | 24-4-4<br>2,408    | 15-15-15<br>2,660  | 25-2-3<br>1,558    | 5-10-5<br>1,465    | 13-20-10<br>1,444  | 10-20-20<br>1,389  | 15-10-10<br>1,231    | 12-4-8<br>1,025   | 882               |
|       | ANAL<br>TENS | 16-9-24<br>169,762  | 18-4-4<br>64,850   | 9-32-16<br>35,759  | 12-12-12<br>34,415 | 16-16-16<br>26,879 | 9-25-3<br>19,250   | 15-15-15<br>17,423 | 19-19-19<br>14,176 | 7-23-5<br>7,759    | 0-32-26<br>6,487   | 4-13-24<br>6,504   | 6-26-26<br>5,410     | 9-18-9<br>4,782   | 5-18-9<br>4,468   |
| MICH  | ANAL<br>TENS | 18-46-0<br>425,916  | 10-34-0<br>22,405  | 6-23-30<br>19,486  | 11-54-0<br>16,703  | 7-21-7<br>16,559   | 6-24-24<br>13,714  | 3-10-30<br>13,490  | 0-32-26<br>10,721  | 11-55-0<br>5,576   | 15-38-10<br>8,487  | 4-13-24<br>6,504   | 9-18-9<br>4,972      | 10-20-20<br>4,782 | 5-18-9<br>4,468   |
|       | ANAL<br>TENS | 15-15-15<br>157,454 | 6-24-24<br>56,584  | 10-34-0<br>37,477  | 5-15-20<br>15,239  | 0-17-24<br>17,178  | 0-15-30<br>17,178  | 0-20-20<br>17,178  | 6-6-6<br>40,246    | 3-9-18<br>7,759    | 4-12-24<br>7,776   | 0-10-30<br>3,120   | 12-12-12<br>3,120    | 3-9-27<br>2,950   | 5-20-20<br>2,760  |
|       | ANAL<br>TENS | 17-17-17<br>51,671  | 6-24-24<br>67,046  | 16-15-15<br>60,326 | 27-13-13<br>59,050 | 12-12-12<br>58,121 | 23-11-11<br>53,549 | 26-6-6<br>28,915   | 0-17-35<br>7,527   | 0-28-26<br>27,310  | 15-6-15<br>6,256   | 22-7-15<br>6,256   | 21-14-14<br>6,077    | 9-22-30<br>6,077  | 0-13-16<br>1,846  |
| MINN  | ANAL<br>TENS | 10-10-10<br>105,028 | 5-12-15<br>87,695  | 10-10-10<br>84,295 | 6-24-24<br>82,976  | 5-20-20<br>24,777  | 15-15-15<br>17,997 | 7-28-28<br>9,231   | 0-23-30<br>7,990   | 6-12-12<br>6,437   | 6-23-30<br>6,092   | 6-12-18<br>5,888   | 12-12-12<br>5,563    | 10-4-10<br>5,069  |                   |
|       | ANAL         |                     |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                      |                   |                   |

|                                       |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| COMMERCIAL FERTILIZERS, NOVEMBER 1979 | 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | CROP REPORTING BOARD, ESCS, USCA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

1/ EXCLUDES ALASKA, HAWAII, PUERTO RICO AND CONFIDENTIAL ANALYSES.



TABLE 15 -- TONNAGES OF THE 150 MOST POPULAR MIXTURES CONSUMED,  
YEARS ENDED JUNE 30, 1978 AND 1979 1/

| GRADE   | CONSUMPTION |         | PROPORTION OF TOTAL |      | GRADE    | CONSUMPTION |            | PROPORTION OF TOTAL |       |
|---------|-------------|---------|---------------------|------|----------|-------------|------------|---------------------|-------|
|         | 1978        | 1979    | 1978                | 1979 |          | 1978        | 1979       | 1978                | 1979  |
|         | TONS        |         | PERCENT             |      |          | TONS        |            | PERCENT             |       |
| 0-9-27  | 73,158      | 116,181 | .33                 | .50  | 9-18-9   | 63,802      | 60,491     | .29                 | .26   |
| 0-10-20 | 134,135     | 138,063 | .61                 | .59  | 9-23-30  | 127,377     | 132,267    | .58                 | .57   |
| 0-10-30 | 42,164      | 46,189  | .19                 | .20  | 10-5-10  | 60,934      | 57,519     | .28                 | .25   |
| 0-10-40 | 49,355      | 61,931  | .23                 | .27  | 10-6-4   | 74,568      | 67,040     | .34                 | .29   |
| 0-12-36 | 18,369      | 24,204  | .08                 | .10  | 10-10-10 | 810,780     | 772,620    | 3.71                | 3.32  |
| 0-14-14 | 17,924      | 21,348  | .08                 | .09  | 10-10-20 | 55,135      | 57,883     | .25                 | .25   |
| 0-14-42 | 34,289      | 42,710  | .16                 | .18  | 10-15-15 | 49,691      | 39,066     | .23                 | .17   |
| 0-15-30 | 92,063      | 88,486  | .42                 | .38  | 10-20-10 | 109,219     | 185,771    | .87                 | .80   |
| 0-15-40 | 48,213      | 58,256  | .22                 | .25  | 10-20-20 | 418,105     | 397,889    | 1.91                | 1.71  |
| 0-17-34 | 58,548      | 69,708  | .27                 | .30  | 10-20-30 | 33,737      | 41,137     | .15                 | .18   |
| 0-17-35 | 21,304      | 32,459  | .10                 | .14  | 10-26-26 | 27,496      | 28,945     | .13                 | .12   |
| 0-18-36 | 43,859      | 57,105  | .20                 | .25  | 10-30-0  | 23,809      | 23,854     | .11                 | .10   |
| 0-20-20 | 80,128      | 82,317  | .37                 | .35  | 10-34-0  | 598,481     | 672,997    | 2.74                | 2.89  |
| 0-23-30 | 61,548      | 65,912  | .28                 | .28  | 10-40-10 | 25,755      | 24,186     | .12                 | .10   |
| 0-24-24 | 91,316      | 99,399  | .42                 | .43  | 11-33-0  | 15,872      | 20,280     | .07                 | .09   |
| 0-24-26 | 130,537     | 156,447 | .60                 | .67  | 11-52-0  | 42,526      | 30,830     | .19                 | .13   |
| 0-25-25 | 52,721      | 60,581  | .24                 | .26  | 11-53-0  | 801         | 24,713     | .00                 | .11   |
| 0-26-26 | 83,387      | 84,585  | .38                 | .37  | 11-54-0  | 18,778      | 77,607     | .09                 | .33   |
| 1-1-1   | 16,770      | 31,712  | .08                 | .14  | 11-55-0  | 105,168     | 87,211     | .48                 | .37   |
| 2-6-12  | 136,510     | 157,719 | .62                 | .68  | 12-0-12  | 56,124      | 59,332     | .26                 | .25   |
| 3-9-9   | 313,097     | 302,324 | 1.43                | 1.30 | 12-2-12  | 30,306      | 41,152     | .14                 | .18   |
| 3-9-12  | 59,872      | 80,593  | .27                 | .35  | 12-4-8   | 30,317      | 27,514     | .14                 | .12   |
| 3-9-18  | 354,335     | 374,581 | 1.62                | 1.61 | 12-6-6   | 46,827      | 48,105     | .21                 | .21   |
| 3-9-27  | 52,121      | 77,788  | .24                 | .33  | 12-12-12 | 362,802     | 357,166    | 1.66                | 1.53  |
| 3-9-30  | 5,142       | 19,073  | .02                 | .08  | 12-24-12 | 77,041      | 85,917     | .35                 | .37   |
| 3-10-10 | 41,059      | 46,155  | .19                 | .20  | 12-24-24 | 53,049      | 69,473     | .24                 | .30   |
| 3-10-20 | 29,980      | 37,803  | .14                 | .16  | 12-50-0  | 29,663      | 20,171     | .14                 | .09   |
| 3-10-30 | 138,351     | 179,708 | .63                 | .77  | 13-13-13 | 704,587     | 695,810    | 3.22                | 2.99  |
| 3-10-18 | 18,912      | 20,882  | .09                 | .09  | 13-52-0  | 37,126      | 23,375     | .17                 | .10   |
| 4-8-12  | 171,082     | 148,863 | .78                 | .64  | 14-0-14  | 25,364      | 35,626     | .12                 | .15   |
| 4-10-10 | 124,750     | 154,385 | .57                 | .66  | 14-7-7   | 47,964      | 47,160     | .22                 | .20   |
| 4-12-12 | 70,873      | 57,279  | .32                 | .25  | 14-7-14  | 23,756      | 23,447     | .11                 | .10   |
| 4-12-24 | 273,149     | 330,148 | 1.25                | 1.42 | 14-14-14 | 103,065     | 102,131    | .47                 | .44   |
| 4-12-36 | 102,327     | 128,896 | .47                 | .55  | 15-5-5   | 18,440      | 19,469     | .08                 | .08   |
| 4-13-26 | 30,173      | 44,297  | .14                 | .19  | 15-5-10  | 20,836      | 20,021     | .10                 | .09   |
| 5-10-5  | 44,665      | 40,651  | .20                 | .17  | 15-8-12  | 32,587      | 32,790     | .15                 | .14   |
| 5-10-10 | 306,192     | 275,506 | 1.40                | 1.18 | 15-10-10 | 66,340      | 61,272     | .30                 | .26   |
| 5-10-15 | 659,854     | 612,002 | 3.02                | 2.63 | 15-15-15 | 303,790     | 295,326    | 1.39                | 1.27  |
| 5-10-30 | 86,360      | 124,425 | .40                 | .53  | 15-40-5  | 23,086      | 20,553     | .11                 | .09   |
| 5-15-30 | 242,362     | 248,449 | 1.11                | 1.07 | 16-0-16  | 45,770      | 49,525     | .21                 | .21   |
| 5-17-21 | 51,658      | 58,797  | .24                 | .25  | 16-4-8   | 40,813      | 48,125     | .19                 | .21   |
| 5-18-21 | 33,840      | 38,694  | .15                 | .17  | 16-6-12  | 70,343      | 76,596     | .32                 | .33   |
| 5-20-20 | 104,405     | 94,562  | .48                 | .41  | 16-8-8   | 98,167      | 98,283     | .45                 | .42   |
| 5-20-35 | 25,653      | 41,722  | .12                 | .18  | 16-10-10 | 18,599      | 21,150     | .09                 | .09   |
| 5-23-27 | 31,088      | 28,976  | .14                 | .12  | 16-16-16 | 123,274     | 134,829    | .56                 | .58   |
| 6-6-6   | 72,247      | 78,564  | .33                 | .34  | 16-17-9  | 63,425      | 111,639    | .29                 | .48   |
| 6-8-8   | 60,184      | 60,055  | .28                 | .26  | 16-20-6  | 26,340      | 35,235     | .12                 | .15   |
| 6-12-6  | 20,474      | 22,416  | .09                 | .10  | 16-20-20 | 835         | 28,566     | .00                 | .12   |
| 6-12-12 | 118,765     | 95,467  | .54                 | .41  | 17-17-17 | 183,862     | 204,869    | .84                 | .88   |
| 6-12-18 | 115,886     | 105,224 | .53                 | .45  | 18-9-3   | 17,654      | 24,368     | .08                 | .10   |
| 6-18-6  | 69,449      | 69,896  | .32                 | .30  | 18-12-2  | 14,606      | 32,611     | .07                 | .14   |
| 6-18-18 | 57,957      | 71,409  | .27                 | .31  | 18-18-5  | 34,860      | 28,750     | .16                 | .12   |
| 6-18-36 | 62,635      | 63,555  | .29                 | .27  | 18-46-0  | 3,168,181   | 3,674,572  | 14.49               | 15.79 |
| 6-20-20 | 30,431      | 29,368  | .14                 | .13  | 19-9-0   | 33,708      | 25,380     | .15                 | .13   |
| 6-24-24 | 917,329     | 894,805 | 4.19                | 3.84 | 19-9-19  | 25,554      | 27,920     | .12                 | .12   |
| 6-25-25 | 16,542      | 24,326  | .08                 | .10  | 19-19-19 | 117,915     | 140,203    | .54                 | .60   |
| 6-26-26 | 37,756      | 38,690  | .17                 | .17  | 20-0-20  | 23,360      | 22,857     | .11                 | .10   |
| 7-14-21 | 53,423      | 45,481  | .24                 | .20  | 20-5-5   | 15,801      | 19,409     | .07                 | .08   |
| 7-21-7  | 166,673     | 172,170 | .76                 | .74  | 20-5-10  | 64,643      | 74,419     | .30                 | .32   |
| 7-22-5  | 21,209      | 19,594  | .10                 | .08  | 20-10-0  | 104,484     | 81,761     | .48                 | .35   |
| 7-23-5  | 46,525      | 46,488  | .21                 | .21  | 20-10-5  | 23,471      | 19,906     | .11                 | .09   |
| 7-28-28 | 48,562      | 47,275  | .22                 | .20  | 20-10-10 | 144,278     | 154,165    | .66                 | .66   |
| 7-31-12 | 18,707      | 15,545  | .09                 | .08  | 20-20-20 | 28,475      | 25,614     | .13                 | .11   |
| 8-0-24  | 20,428      | 21,141  | .09                 | .09  | 21-7-14  | 32,206      | 36,137     | .15                 | .16   |
| 8-2-8   | 17,352      | 18,823  | .08                 | .08  | 21-8-17  | 13,742      | 20,279     | .06                 | .09   |
| 8-4-10  | 6,292       | 21,843  | .03                 | .09  | 21-14-14 | 14,797      | 23,656     | .07                 | .10   |
| 8-8-8   | 186,914     | 185,855 | .85                 | .79  | 22-7-15  | 23,952      | 23,632     | .11                 | .10   |
| 8-16-8  | 23,732      | 25,545  | .11                 | .10  | 22-11-0  | 27,212      | 24,323     | .12                 | .10   |
| 8-16-16 | 22,402      | 23,747  | .10                 | .10  | 22-11-22 | 19,028      | 20,200     | .09                 | .09   |
| 8-16-24 | 40,543      | 42,635  | .19                 | .18  | 23-11-11 | 56,647      | 56,135     | .26                 | .24   |
| 8-24-0  | 19,290      | 20,791  | .09                 | .09  | 24-8-0   | 21,526      | 18,582     | .10                 | .08   |
| 8-24-8  | 18,832      | 19,353  | .09                 | .08  | 24-16-16 | 23,022      | 32,962     | .11                 | .14   |
| 8-24-24 | 247,556     | 231,547 | 1.13                | .99  | 25-3-3   | 29,787      | 31,854     | .14                 | .14   |
| 8-25-3  | 41,471      | 45,165  | .19                 | .19  | 26-3-3   | 45,053      | 38,577     | .21                 | .17   |
| 8-32-16 | 234,243     | 227,455 | 1.07                | .98  | 27-13-13 | 55,106      | 61,792     | .25                 | .27   |
|         |             |         |                     |      | TOTAL    | 17,159,281  | 18,290,772 | 78.46               | 78.60 |

NUMBER OF GRADES AND TOTAL TONNAGE BY CLASS;  
YEAR ENDED JUNE 30

GRADES OF 10,000 TONS OR MORE  
GRADES 5,000 TONS TO 9,999 TONS  
GRADES 2,500 TONS TO 4,999 TONS  
LESS THAN 2,500 TONS AND GRADE NOT REPORTED

TOTAL (48 STATES AND DISTRICT OF COLUMBIA)

| NUMBER |      | TONS       |            | PERCENT OF TOTAL |        |
|--------|------|------------|------------|------------------|--------|
| 1978   | 1979 | 1978       | 1979       | 1978             | 1979   |
| 213    | 226  | 18,132,103 | 19,315,874 | 82.91            | 83.00  |
| 119    | 135  | 845,966    | 945,792    | 3.87             | 4.06   |
| 195    | 216  | 703,713    | 765,066    | 3.22             | 3.29   |
|        |      | 2,188,551  | 2,245,439  | 10.01            | 9.65   |
|        |      | 21,870,333 | 23,272,171 | 100.00           | 100.00 |

1/ EXCLUDES ALASKA, HAWAII AND PUERTO RICO AND GRADES MADE BY ONLY ONE COMPANY.

TABLE 16 -- AVERAGE PRIMARY NUTRIENT CONTENT OF MIXTURES AND DIRECT APPLICATION MATERIALS CONSUMED,  
YEAR ENDED JUNE 30, 1979

| STATE               | MIXTURE 1/ |            |       |       | MATERIAL 2/ |            |       |                      |       | TOTAL<br>IN<br>MIXTURES<br>AND<br>MATERIALS |
|---------------------|------------|------------|-------|-------|-------------|------------|-------|----------------------|-------|---|
|                     | N          | AVAILABLE  | K O   | TOTAL | N           | AVAILABLE  | K O   | MULTIPLE<br>NUTRIENT | TOTAL |   |
|                     |            | P O<br>2 5 |       |       |             | P O<br>2 5 |       |                      |       |   |
| - - - PERCENT - - - |            |            |       |       |             |            |       |                      |       |   |
| ALA                 | 8.11       | 14.76      | 17.34 | 40.21 | 35.05       | 20.05      | 53.78 | 19.18                | 34.29 | 38.30                                       |
| ALAS                | 14.40      | 23.13      | 12.69 | 50.22 | 40.75       | .00        | 59.82 | 59.00                | 42.62 | 47.58                                       |
| ARIZ                | 12.38      | 31.00      | 5.33  | 48.71 | 41.10       | 56.29      | 60.00 | 42.97                | 41.96 | 43.37                                       |
| ARK                 | 8.74       | 17.63      | 19.33 | 45.70 | 42.25       | 44.17      | 58.25 | 18.94                | 43.30 | 44.65                                       |
| CALIF               | 12.25      | 14.51      | 7.81  | 35.01 | 31.78       | 33.35      | 54.55 | 30.63                | 31.94 | 22.71                                       |
| CALC                | 15.53      | 31.01      | 2.77  | 49.31 | 43.33       | 39.02      | 52.29 | 42.32                | 43.65 | 44.84                                       |
| CONN                | 12.52      | 8.29       | 8.88  | 30.09 | 41.01       | 35.20      | 60.99 | 15.75                | 30.39 | 30.19                                       |
| DEL                 | 9.17       | 15.34      | 15.72 | 40.22 | 32.29       | 46.00      | 60.92 | 8.19                 | 40.47 | 40.31                                       |
| D C                 | 16.85      | 6.79       | 6.17  | 29.81 | 36.76       | 43.20      | 58.85 | 6.07                 | 19.06 | 27.60                                       |
| FLA                 | 10.27      | 6.51       | 14.20 | 30.98 | 33.35       | 15.00      | 44.85 | 27.01                | 32.01 | 31.12                                       |
| GA                  | 5.71       | 10.72      | 17.18 | 33.61 | 33.52       | 17.36      | 43.50 | 44.78                | 34.08 | 33.78                                       |
| HAW                 | 12.93      | 18.49      | 13.84 | 45.25 | 59.44       | 23.80      | 59.53 | 60.66                | 54.97 | 49.76                                       |
| IDAHO               | 15.71      | 31.04      | 5.45  | 56.20 | 38.24       | 48.44      | 56.36 | 37.49                | 39.39 | 43.01                                       |
| ILL                 | 11.64      | 28.70      | 10.21 | 50.56 | 51.31       | 44.97      | 60.00 | 44.72                | 54.03 | 52.83                                       |
| IND                 | 6.67       | 19.51      | 17.58 | 44.16 | 45.95       | 45.12      | 57.80 | .00                  | 49.88 | 46.87                                       |
| IOA                 | 13.40      | 33.05      | 7.96  | 54.41 | 54.17       | 43.03      | 60.45 | 51.90                | 55.63 | 55.23                                       |
| KANS                | 14.52      | 39.33      | 2.54  | 56.39 | 54.21       | 43.53      | 60.00 | 35.93                | 54.18 | 54.84                                       |
| KY                  | 10.13      | 21.23      | 13.20 | 44.57 | 40.66       | 45.28      | 58.71 | 24.42                | 47.39 | 45.89                                       |
| LA                  | 9.16       | 15.48      | 17.60 | 42.24 | 40.73       | 37.60      | 21.06 | 8.83                 | 36.87 | 40.41                                       |
| MAINE               | 11.58      | 14.41      | 13.66 | 39.65 | 41.07       | 36.67      | 57.63 | 7.36                 | 37.12 | 39.45                                       |
| MD                  | 9.51       | 16.34      | 15.20 | 41.05 | 37.39       | 44.51      | 60.63 | 9.06                 | 42.35 | 41.48                                       |
| MASS                | 14.49      | 10.03      | 10.12 | 34.63 | 41.18       | 37.49      | 56.77 | 9.41                 | 33.36 | 34.42                                       |
| MICH                | 10.16      | 23.86      | 16.23 | 50.25 | 49.61       | 44.81      | 59.56 | 8.77                 | 52.23 | 51.18                                       |
| MINN                | 14.21      | 36.57      | 6.38  | 57.26 | 55.44       | 45.42      | 59.80 | 59.95                | 58.72 | 68.26                                       |
| MISS                | 7.56       | 16.52      | 15.88 | 43.96 | 41.46       | 17.80      | 61.00 | 11.69                | 40.58 | 42.45                                       |
| MO                  | 13.53      | 15.18      | 19.51 | 48.62 | 48.49       | 42.43      | 56.26 | 12.79                | 48.87 | 48.67                                       |
| MONT                | 16.45      | 42.50      | .80   | 59.79 | 38.54       | 45.90      | 59.70 | 41.75                | 41.26 | 50.71                                       |
| NEBR                | 13.52      | 35.85      | 2.87  | 52.23 | 55.88       | 44.40      | 41.03 | 34.38                | 53.88 | 53.51                                       |
| NEV                 | 12.82      | 19.07      | 3.11  | 35.00 | 31.76       | 30.78      | 15.83 | 28.40                | 31.13 | 31.94                                       |
| N H                 | 12.70      | 11.38      | 12.25 | 36.33 | 39.30       | 40.43      | 60.31 | 9.17                 | 35.69 | 36.20                                       |
| N J                 | 11.86      | 11.11      | 11.44 | 34.41 | 35.37       | 44.38      | 58.02 | 9.46                 | 31.41 | 33.88                                       |
| N MEX               | 14.65      | 34.04      | 2.77  | 51.50 | 48.35       | 44.97      | 29.27 | 29.57                | 43.89 | 46.38                                       |
| N Y                 | 10.51      | 15.96      | 14.64 | 41.11 | 36.58       | 58.34      | 55.27 | 15.23                | 40.67 | 40.97                                       |
| N C                 | 6.71       | 11.50      | 16.14 | 34.34 | 30.82       | 31.56      | 57.05 | 25.50                | 31.68 | 33.57                                       |
| N DAK               | 16.77      | 40.13      | 3.48  | 60.37 | 62.54       | 45.59      | 60.00 | 35.65                | 61.32 | 60.97                                       |
| OHIO                | 10.36      | 25.25      | 14.73 | 50.34 | 44.84       | 44.51      | 60.35 | 8.41                 | 50.14 | 50.23                                       |
| OKLA                | 14.39      | 31.84      | 6.01  | 52.24 | 54.80       | 45.18      | 55.66 | 32.51                | 53.74 | 53.21                                       |
| OREG                | 16.39      | 25.92      | 5.30  | 47.60 | 34.83       | 34.17      | 55.28 | 39.08                | 37.13 | 39.26                                       |
| PA                  | 10.15      | 15.78      | 13.95 | 39.92 | 35.35       | 40.43      | 59.05 | 38.28                | 40.31 | 40.04                                       |
| R I                 | 10.68      | 10.00      | 9.75  | 30.43 | 44.45       | 43.24      | 60.98 | 31.52                | 37.49 | 32.26                                       |
| S C                 | 4.99       | 10.59      | 18.83 | 34.41 | 29.17       | 22.43      | 54.34 | 46.54                | 32.03 | 33.69                                       |
| S DAK               | 16.95      | 34.19      | 3.34  | 54.48 | 44.26       | 50.62      | 59.78 | 41.92                | 46.04 | 49.23                                       |
| TENN                | 10.69      | 23.15      | 12.82 | 46.66 | 37.05       | 46.00      | 60.64 | 8.80                 | 47.06 | 46.84                                       |
| TEX                 | 15.32      | 16.47      | 6.80  | 38.59 | 48.05       | 42.90      | 42.97 | 31.58                | 45.99 | 41.70                                       |
| UTAH                | 19.41      | 16.80      | 3.72  | 39.93 | 32.85       | 51.63      | 61.00 | 45.76                | 37.00 | 37.29                                       |
| VT                  | 11.62      | 14.77      | 13.87 | 40.25 | 37.96       | 46.00      | 60.00 | .00                  | 45.43 | 41.32                                       |
| VA                  | 8.31       | 12.14      | 14.88 | 35.33 | 30.03       | 43.77      | 57.58 | 33.09                | 32.74 | 34.68                                       |
| WASH                | 15.06      | 32.52      | 4.91  | 52.49 | 36.73       | 44.28      | 56.65 | 28.69                | 37.42 | 40.34                                       |
| W VA                | 9.08       | 13.85      | 13.41 | 36.34 | 34.12       | 45.35      | 59.77 | 3.70                 | 41.68 | 39.25                                       |
| WIS                 | 11.72      | 28.92      | 13.00 | 53.65 | 47.06       | 44.05      | 59.47 | 9.12                 | 52.82 | 53.09                                       |
| WYO                 | 16.74      | 39.75      | .31   | 56.80 | 42.73       | 48.19      | 54.38 | 54.23                | 43.57 | 45.64                                       |
| P R                 | 13.41      | 5.51       | 11.49 | 30.41 | 21.67       | 46.00      | 47.48 | 74.00                | 23.24 | 20.12                                       |
| TOTAL               | 10.64      | 19.93      | 12.90 | 43.67 | 45.87       | 41.92      | 58.47 | 31.84                | 47.72 | 45.77                                       |

1/ GUARANTEED TO CONTAIN 2 OR MORE OF THE PRIMARY NUTRIENTS N, P O, K O.

2 5 2

2/ INCLUDES ONLY MATERIALS GUARANTEED TO CONTAIN 1 OR MORE PRIMARY NUTRIENTS.

TABLE 17 -- CONSUMPTION OF SELECTED N-P GRADES,  
YEAR ENDED JUNE 30, 1979

| STATE | GRADE 17   |        |         |       |           |        |        |
|-------|------------|--------|---------|-------|-----------|--------|--------|
|       | 11-46      | 13-39  | 16-20   | 16-48 | 18-46     | 21-53  | 27-14  |
|       | -- TONS -- |        |         |       |           |        |        |
| ALA   | 0          | 0      | 37      | 0     | 3,553     | 17     | 0      |
| ALAS  | 55         | 0      | 0       | 0     | 120       | 0      | 0      |
| ARIZ  | 12,023     | 0      | 24,632  | 0     | 16,500    | 0      | 0      |
| ARK   | 0          | 65     | 1,204   | 0     | 8,441     | 0      | 0      |
| CALIF | 65,553     | 0      | 95,712  | 0     | 0         | 56     | 20,450 |
| COLG  | 7,186      | 0      | 343     | 0     | 32,772    | 0      | 16     |
| CONN  | 1,697      | 0      | 0       | 0     | 0         | 0      | 0      |
| DEL   | 0          | 0      | 0       | 0     | 5,792     | 0      | 0      |
| C C   | 0          | 0      | 0       | 0     | 2         | 0      | 0      |
| FLA   | 0          | 139    | 0       | 0     | 1,820     | 1,951  | 0      |
| GA    | 972        | 19,613 | 0       | 1     | 0         | 8,254  | 0      |
| HAW   | 880        | 0      | 2       | 0     | 9,034     | 142    | 0      |
| IDAHO | 1,636      | 0      | 23,557  | 0     | 54,251    | 0      | 0      |
| ILL   | 460        | 0      | 15      | 0     | 598,702   | 0      | 0      |
| IND   | 0          | 0      | 0       | 0     | 123,818   | 0      | 0      |
| IOWA  | 0          | 42     | 84      | 0     | 655,091   | 1,276  | 0      |
| KAAS  | 93         | 549    | 4,424   | 0     | 250,710   | 0      | 0      |
| KY    | 0          | 0      | 0       | 0     | 109,028   | 2      | 0      |
| LA    | 0          | 0      | 165     | 0     | 1,104     | 0      | 0      |
| MAINE | 0          | 0      | 0       | 0     | 1,915     | 0      | 0      |
| MD    | 0          | 0      | 0       | 0     | 27,595    | 0      | 0      |
| MASS  | 0          | 0      | 0       | 0     | 1,420     | 0      | 0      |
| MICH  | 0          | 0      | 50      | 0     | 60,850    | 137    | 0      |
| MINN  | 77         | 37     | 4,081   | 0     | 405,916   | 16,058 | 411    |
| MISS  | 0          | 0      | 12      | 0     | 3,874     | 0      | 0      |
| MO    | 0          | 0      | 23      | 0     | 2,827     | 0      | 0      |
| MONT  | 3,573      | 0      | 10,359  | 0     | 97,329    | 0      | 2,694  |
| NEBR  | 70         | 0      | 10,670  | 0     | 172,386   | 0      | 0      |
| NEV   | 366        | 0      | 2,587   | 0     | 395       | 0      | 0      |
| N H   | 0          | 0      | 0       | 0     | 502       | 21     | 0      |
| N J   | 1          | 20     | 0       | 0     | 3,980     | 43     | 0      |
| N MEX | 0          | 488    | 6,854   | 0     | 14,664    | 0      | 0      |
| N Y   | 0          | 0      | 0       | 0     | 6,159     | 0      | 0      |
| N C   | 92         | 2      | 0       | 0     | 18,805    | 0      | 0      |
| N DAK | 1,192      | 0      | 2,821   | 0     | 166,710   | 0      | 16     |
| CHIC  | 0          | 0      | 0       | 0     | 203,564   | 10     | 0      |
| CKLA  | 720        | 56     | 5,276   | 36    | 134,556   | 27     | 0      |
| GREG  | 5,572      | 1,612  | 54,067  | 0     | 13,355    | 18     | 0      |
| PA    | 13,918     | 0      | 8       | 0     | 1,287     | 2      | 0      |
| R I   | 0          | 0      | 0       | 0     | 0         | 894    | 0      |
| S C   | 0          | 0      | 0       | 0     | 0         | 1,733  | 0      |
| S DAK | 469        | 0      | 38      | 0     | 77,781    | 0      | 0      |
| TEKN  | 0          | 0      | 0       | 0     | 95,227    | 0      | 0      |
| TEX   | 0          | 5,364  | 74,892  | 0     | 82,886    | 0      | 0      |
| UTAH  | 1,784      | 0      | 2,416   | 0     | 1,517     | 0      | 0      |
| VT    | 0          | 0      | 0       | 0     | 2,175     | 0      | 0      |
| VA    | 3,565      | 174    | 0       | 0     | 8,741     | 66     | 0      |
| WASH  | 1,632      | 619    | 40,704  | 0     | 34,507    | 0      | 0      |
| W VA  | 0          | 0      | 0       | 0     | 132       | 0      | 0      |
| WIS   | 0          | 0      | 33      | 422   | 167,253   | 0      | 0      |
| WYC   | 0          | 0      | 427     | 0     | 8,680     | 0      | 0      |
| P R   | 0          | 0      | 0       | 0     | 32        | 200    | 0      |
| TOTAL | 127,597    | 28,784 | 365,899 | 459   | 3,683,758 | 30,907 | 23,587 |

1/ IN OTHER TABLES, ALL QUANTITIES OF GRADE 11-48, 13-39, 16-20, 21-53, AND 27-14 ARE INCLUDED IN MATERIALS;  
WHEREAS, 16-48 AND 18-46 ARE INCLUDED IN MIXTURES.

TABLE 17 -- CONSUMPTION OF SELECTED N-P GRADES,  
YEAR ENDED JUNE 30, 1979--CONTINUED

| STATE | GRADE      |        |        |        |       |       |       |
|-------|------------|--------|--------|--------|-------|-------|-------|
|       | 10-34      | 11-37  | 11-55  | 13-52  | 23-23 | 28-14 | 30-10 |
|       | -- TONS -- |        |        |        |       |       |       |
| ALA   | 4,363      | 110    | 24     | 17     | 0     | 1     | 8     |
| ALAS  | 0          | 0      | 60     | 0      | 0     | 0     | 0     |
| ARIZ  | 18,865     | 0      | 0      | 0      | 0     | 0     | 0     |
| ARK   | 683        | 0      | 0      | 0      | 0     | 0     | 0     |
| CALIF | 66,974     | 0      | 0      | 1,468  | 0     | 0     | 22    |
| COLO  | 13,040     | 0      | 657    | 219    | 0     | 13    | 318   |
| CONN  | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| DEL   | 541        | 0      | 0      | 0      | 0     | 0     | 0     |
| D C   | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| FLA   | 140        | 6      | 0      | 2      | 0     | 0     | 0     |
| GA    | 0          | 0      | 0      | 448    | 0     | 0     | 5     |
| HAW   | 112        | 14     | 0      | 0      | 0     | 0     | 0     |
| IDAH  | 0          | 0      | 3,351  | 0      | 0     | 0     | 0     |
| ILL   | 29,898     | 251    | 223    | 1,410  | 0     | 0     | 18    |
| IND   | 100,403    | 2,461  | 0      | 2,412  | 0     | 0     | 0     |
| IOWA  | 40,401     | 295    | 4,586  | 4,146  | 0     | 8     | 140   |
| KANS  | 63,017     | 268    | 5,465  | 0      | 0     | 0     | 175   |
| KY    | 5,069      | 534    | 0      | 0      | 0     | 0     | 0     |
| LA    | 1,538      | 36     | 0      | 0      | 0     | 0     | 25    |
| MAINE | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| ME    | 39         | 0      | 0      | 1,225  | 0     | 0     | 0     |
| MASS  | 1          | 2      | 0      | 0      | 0     | 0     | 0     |
| MICH  | 12,274     | 0      | 0      | 2,140  | 0     | 0     | 0     |
| MINN  | 52,409     | 264    | 8,487  | 1,731  | 196   | 303   | 153   |
| MISS  | 308        | 0      | 0      | 0      | 0     | 0     | 0     |
| MO    | 2,484      | 9      | 400    | 0      | 0     | 18    | 148   |
| MONT  | 4,659      | 0      | 34,049 | 0      | 1,348 | 1,127 | 859   |
| NEBR  | 76,865     | 4,002  | 5,098  | 146    | 0     | 20    | 327   |
| NEV   | 1,609      | 0      | 123    | 0      | 0     | 0     | 0     |
| N H   | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| N J   | 307        | 0      | 0      | 0      | 0     | 0     | 0     |
| N MEX | 4,745      | 0      | 109    | 100    | 0     | 0     | 4     |
| N Y   | 2,879      | 442    | 0      | 703    | 0     | 0     | 0     |
| N C   | 2,201      | 109    | 0      | 64     | 0     | 0     | 4     |
| N DAK | 12,179     | 147    | 2,326  | 0      | 391   | 32    | 45    |
| OHIO  | 25,214     | 44     | 0      | 3,826  | 0     | 0     | 0     |
| OKLA  | 9,988      | 105    | 0      | 0      | 0     | 434   | 191   |
| GREG  | 10,514     | 0      | 6,932  | 0      | 0     | 0     | 300   |
| PA    | 933        | 0      | 0      | 325    | 0     | 0     | 91    |
| R I   | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| S C   | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| S DAK | 6,613      | 0      | 1,724  | 0      | 0     | 221   | 11    |
| TEAN  | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| TEX   | 80,375     | 3,058  | 611    | 2,905  | 0     | 6,790 | 5,090 |
| UTAH  | 782        | 0      | 0      | 0      | 0     | 0     | 598   |
| VT    | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| VA    | 3          | 3      | 0      | 88     | 8     | 0     | 0     |
| WASH  | 17,632     | 0      | 13,246 | 0      | 0     | 0     | 0     |
| W VA  | 0          | 0      | 0      | 0      | 0     | 0     | 0     |
| WIS   | 103        | 0      | 0      | 0      | 0     | 0     | 4     |
| WY    | 1,939      | 0      | 0      | 0      | 0     | 0     | 392   |
| P R   | 0          | 0      | 0      | 0      | 0     | 0     | 5     |
| TOTAL | 673,109    | 12,958 | 87,271 | 23,375 | 1,943 | 8,970 | 8,933 |

TABLE 18 -- CONSUMPTION OF NITROGEN SOLUTIONS BY DIRECT-APPLICATION,  
YEARS ENDED JUNE 30, 1978 AND 1979

| STATE | UNDER 28% NITROGEN |         | 28-32% NITROGEN |           | OVER 32% NITROGEN |        |
|-------|--------------------|---------|-----------------|-----------|-------------------|--------|
|       | 1978               | 1979    | 1978            | 1979      | 1978              | 1979   |
| ALA   | 0                  | 0       | 67,080          | 64,935    | 0                 | 0      |
| ALAS  | 0                  | 0       | 0               | 0         | 0                 | 0      |
| ARIZ  | 9,697              | 8,434   | 66,043          | 72,467    | 0                 | 27     |
| ARK   | 0                  | 9       | 20,725          | 23,066    | 23                | 13     |
| CALIF | 154,265            | 162,308 | 207,204         | 170,202   | 4,942             | 2,458  |
| COLO  | 13,460             | 7,320   | 62              | 85,887    | 62,571            | 8      |
| CONN  | 63                 | 0       | 10              | 0         | 23                | 0      |
| DEL   | 0                  | 0       | 22,101          | 24,163    | 136               | 115    |
| D C   | 0                  | 0       | 0               | 100       | 60                | 0      |
| FLA   | 284                | 0       | 76,803          | 72,322    | 0                 | 0      |
| GA    | 30,550             | 41,060  | 368,781         | 366,672   | 40                | 33     |
| HAW   | 0                  | 0       | 0               | 10,736    | 0                 | 0      |
| IDAH0 | 0                  | 421     | 59,267          | 60,517    | 0                 | 0      |
| ILL   | 13,090             | 626     | 494,536         | 626,090   | 11,273            | 26,188 |
| IND   | 0                  | 0       | 508,405         | 454,921   | 397               | 2,490  |
| IOWA  | 4,486              | 0       | 446,067         | 545,839   | 2,487             | 727    |
| KANS  | 0                  | 4,962   | 286,367         | 289,738   | 0                 | 0      |
| KY    | 0                  | 0       | 75,872          | 47,506    | 6,260             | 0      |
| LA    | 0                  | 0       | 17,880          | 16,058    | 0                 | 0      |
| MAINE | 0                  | 0       | 0               | 0         | 0                 | 0      |
| MD    | 0                  | 0       | 49,689          | 64,467    | 117               | 95     |
| MASS  | 0                  | 0       | 508             | 484       | 4                 | 0      |
| MICH  | 0                  | 430     | 95,198          | 109,556   | 2                 | 8      |
| MINN  | 32                 | 3       | 113,207         | 166,359   | 4,720             | 2,154  |
| MISS  | 0                  | 0       | 41,820          | 41,962    | 0                 | 0      |
| MO    | 110                | 63      | 85,736          | 90,653    | 52                | 5      |
| MONT  | 0                  | 6,577   | 5,121           | 269       | 0                 | 0      |
| NEBR  | 16,627             | 14,085  | 388,448         | 443,820   | 491               | 71     |
| NEV   | 0                  | 0       | 7,716           | 1,904     | 0                 | 0      |
| N H   | 0                  | 0       | 0               | 0         | 0                 | 0      |
| N J   | 0                  | 0       | 3,771           | 4,945     | 0                 | 0      |
| N MEX | 0                  | 0       | 15,213          | 15,679    | 0                 | 0      |
| N Y   | 703                | 239     | 40,558          | 46,296    | 72                | 315    |
| N C   | 113                | 19      | 324,744         | 342,150   | 1,321             | 548    |
| N DAK | 0                  | 0       | 45,669          | 66,475    | 0                 | 0      |
| OHIO  | 4,555              | 1,201   | 266,537         | 304,479   | 884               | 547    |
| OKLA  | 1,112              | 2,617   | 53,737          | 65,517    | 0                 | 0      |
| OREG  | 18                 | 5,990   | 54,621          | 52,196    | 0                 | 470    |
| PA    | 0                  | 51,608  | 7               | 0         | 34,150            | 0      |
| R I   | 0                  | 0       | 4               | 0         | 0                 | 0      |
| S C   | 17,992             | 13,867  | 156,681         | 145,090   | 0                 | 0      |
| S DAK | 0                  | 0       | 45,725          | 59,024    | 97                | 25     |
| TENN  | 0                  | 0       | 39,067          | 33,494    | 0                 | 0      |
| TEX   | 7,691              | 895     | 174,275         | 217,669   | 0                 | 1,208  |
| UTAH  | 0                  | 0       | 1,380           | 2,237     | 0                 | 0      |
| VT    | 0                  | 0       | 457             | 1,538     | 0                 | 0      |
| VA    | 0                  | 0       | 133,907         | 137,186   | 0                 | 1      |
| WASH  | 6,117              | 4,808   | 109,950         | 113,154   | 89                | 0      |
| W VA  | 0                  | 0       | 126             | 25        | 0                 | 0      |
| WIS   | 475                | 0       | 119,239         | 122,852   | 328               | 2,548  |
| WYO   | 14                 | 0       | 6,550           | 12,385    | 38                | 0      |
| P R   | 0                  | 0       | 0               | 0         | 0                 | 0      |
| TOTAL | 281,454            | 357,582 | 5,098,864       | 5,601,184 | 130,577           | 40,064 |

TABLE 19 -- MICRONUTRIENTS SOLD FOR FERTILIZER IN THE UNITED STATES

| REGION OF APPLICATION   | QUANTITY OF THE ELEMENT SOLD |         |           |          |            |
|---|------------------------------|---------|-----------|----------|------------|
|   | COPPER                       | IRON    | MANGANESE | ZINC     | MOLYBDENUM |
|   | TONS                         |         |           |          |            |
|   | JULY 1, 1977-JUNE 30, 1978   |         |           |          |            |
| NEW ENGLAND<br>(CONN, ME, MASS, N H, R I, VT)                       | 8.4                          | 10.2    | 46.7      | 91.9     | 0.2        |
| MID-ATLANTIC<br>(DEL, D C, MD, N J, N Y, PA, W VA)                  | 112.3                        | 43.6    | 259.0     | 274.0    | 0.3        |
| SOUTH ATLANTIC<br>(FLA, GA, N C, S C, VA)                           | 670.2                        | 1,039.1 | 8,713.1   | 7,517.0  | 7.1        |
| EAST NORTH CENTRAL<br>(ILL, IND, MICH, OHIO, WIS)                   | 112.1                        | 209.0   | 5,077.5   | 2,560.1  | 47.2       |
| WEST NORTH CENTRAL<br>(IOWA, KANS, MINN, MO, NEBR,<br>N DAK, S DAK) | 180.7                        | 456.5   | 2,069.6   | 9,630.4  | 14.5       |
| EAST SOUTH CENTRAL<br>(ALA, KY, MISS, TENN)                         | 43.6                         | 234.5   | 882.5     | 1,671.4  | 19.0       |
| WEST SOUTH CENTRAL<br>(ARK, LA, OKLA, TEX)                          | 147.8                        | 862.4   | 611.4     | 3,080.8  | 18.8       |
| MOUNTAIN<br>(ARIZ, COLO, IDAHO, MONT, NEV,<br>N MEX, UTAH, WYO)     | 31.9                         | 828.2   | 442.7     | 5,177.2  | 2.4        |
| PACIFIC<br>(CALIF, OREG, WASH)                                      | 63.1                         | 583.3   | 453.5     | 6,462.4  | 4.1        |
| ALAS, HAW, PR   | 0.4                          | 9.0     | 2.3       | 0.7      | 2.0        |
| TOTAL   | 1,370.5                      | 4,275.8 | 18,558.3  | 36,465.9 | 115.6      |
|   | TONS                         |         |           |          |            |
|   | JULY 1, 1978-JUNE 30, 1979   |         |           |          |            |
| NEW ENGLAND<br>(CONN, ME, MASS, N H, R I, VT)                       | 7.9                          | 10.0    | 10.3      | 93.9     |            |
| MID-ATLANTIC<br>(DEL, D C, MD, N J, N Y, PA, W VA)                  | 72.3                         | 45.4    | 495.0     | 286.1    | 0.6        |
| SOUTH ATLANTIC<br>(FLA, GA, N C, S C, VA)                           | 752.2                        | 553.7   | 8,075.6   | 6,314.5  | 8.1        |
| EAST NORTH CENTRAL<br>(ILL, IND, MICH, OHIO, WIS)                   | 51.0                         | 381.2   | 4,465.2   | 4,728.8  | 42.7       |
| WEST NORTH CENTRAL<br>(IOWA, KANS, MINN, MO, NEBR,<br>N DAK, S DAK) | 142.8                        | 521.4   | 1,041.3   | 16,977.8 | 8.5        |
| EAST SOUTH CENTRAL<br>(ALA, KY, MISS, TENN)                         | 61.5                         | 180.7   | 367.5     | 1,925.6  | 13.9       |
| WEST SOUTH CENTRAL<br>(ARK, LA, OKLA, TEX)                          | 114.1                        | 1,460.6 | 570.7     | 5,094.8  | 22.9       |
| MOUNTAIN<br>(ARIZ, COLO, IDAHO, MONT,<br>NEV, N MEX, UTAH, WYO)     | 22.0                         | 505.6   | 331.2     | 4,785.5  | 1.7        |
| PACIFIC<br>(CALIF, OREG, WASH)                                      | 65.0                         | 549.2   | 369.4     | 10,193.9 | 1.5        |
| ALAS, HAW, PR   | 2.5                          | 11.1    | 2.3       | 5.2      | 2.1        |
| TOTAL   | 1,291.3                      | 4,218.9 | 15,728.5  | 50,406.1 | 102.0      |

TABLE 20--CONVERSION FACTORS

| TO CONVERT                    | TO                            | MULTIPLY BY |
|-------------------------------|-------------------------------|-------------|
| P <sub>2</sub> O <sub>5</sub> | P                             | 0.43642     |
| P                             | P <sub>2</sub> O <sub>5</sub> | 2.29137     |
| K <sub>2</sub> O              | K                             | 0.83016     |
| K                             | K <sub>2</sub> O              | 1.20459     |

TABLE 21--AVERAGE ANALYSES FOR YEAR ENDING JUNE 30, 1979

| ITEM                         | N     | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |
|------------------------------|-------|-------------------------------|------------------|
| MIXED FERTILIZERS            | 10.84 | 19.93                         | 12.90            |
| NITROGEN MATERIALS:          |       |                               |                  |
| ANHYDROUS AMMONIA            | 82.0  |                               |                  |
| AQUA AMMONIA                 | 20.2  |                               |                  |
| AMMONIUM NITRATE             | 33.5  |                               |                  |
| AMMONIUM SULFATE             | 20.9  |                               |                  |
| NITROGEN SOLUTIONS           | 28.7  |                               |                  |
| SODIUM NITRATE               | 16.0  |                               |                  |
| UREA                         | 45.7  |                               |                  |
| AMMONIUM NITRATE LIMESTONE   | 17.6  |                               |                  |
| PHOSPHATE MATERIALS:         |       |                               |                  |
| PHOSPHATE ROCK 1/            |       | 2.7                           |                  |
| SUPERPHOSPHATE (22% + UNDER) |       | 19.8                          |                  |
| SUPERPHOSPHATE (OVER 22%)    |       | 45.1                          |                  |
| PHOSPHORIC SOLUTIONS         |       | 55.7                          |                  |
| AMMONIUM PHOSPHATE           | 15.5  | 28.7                          |                  |
| POTASH MATERIALS:            |       |                               |                  |
| POTASSIUM CHLORIDE           |       |                               | 60.3             |
| POTASSIUM MAGNESIUM SULFATE  |       |                               | 22.0             |
| POTASSIUM NITRATE            |       |                               | 44.0             |
| POTASSIUM SODIUM NITRATE     |       |                               | 14.6             |
| POTASSIUM SULFATE            |       |                               | 49.4             |
| ORGANIC MATERIALS            | 2.8   | 2.2                           | 2.2              |

1/ INCLUDES COLLOIDAL PHOSPHATE.

